
CV of Prof. Ing. Michele Ciavarella (ENGLISH)

Born in Bari in 1970, he graduates from Politecnico di BARI in Mech Eng in 1994 cum Laude and first of his cohort, and receives the PhD (“dottorato”) in Mech Eng (“ingegneria dei sistemi avanzati di produzione) at Politecnico di BARI, spending most of his PhD time from March ‘96 to Aug. ’97 at University of Oxford under Prof. DA Hills. In the mean time he has been Officer of the Italian Navy, and representative of all Italian office in the organism COCER by election.

From Oct. 1998 to Feb.1999 Senior Research Fellow (full time), University of Southampton, UK

From Feb 1999 - Ott 2002, Senior Researcher, Consiglio Nazionale delle Ricerche (Italian National Research Council), Bari, It. The youngest in Italy nominated to this senior position at age 28.

From Nov. 2002 to Nov.2017, Associate Professor at Politecnico di BARI (It), SSD Ing-Ind14 --- Machine Design. With Italian Habilitation to full professor in sector 09/A – Mechanical and aerospace engineering, obtained in 2014

Presently, and since nov. 2017, Full professor at Politecnico di BARI (It).

Included in the list of the Top Italian Scientists in Engineering (rank 121st) in the world
http://www.topitalianscientists.org/TIS_HTML/Top_Italian_Scientists_Engineering.htm

Ranked first by impact in the Ioannides Stanford ranking of Plos Biology in Politecnico di BARI, 4th in Italy in “mechanics”, and 56 000th in the word in the entire set of 6 million researchers in SCOPUS.

From Oct.10 to Oct. 12, Humboldt Senior Research Fellow (6 months/year), Technical Univ. Hamburg Harburg (G), working on squeak on hip prosthesis

From Dec.07 to Sept 08 “Maitre de conférence” at Lab Mécanique des Solides Ecole Polytechnique Palaiseau(Fr) (sabbatical leave), working on fatigue models, corrugation of railways tracks,

From Jan. 2000 to Sept. 2006, Senior Research Fellow (part time), University of Southampton, UK

From Feb. 1998 to Aug.1998, Post-doc with Prof. D. A. Hills, University of Oxford, UK. Fretting fatigue and contact mechanics

From Jul. 1997 to Aug.1997, Research Fellow with Prof. JR Barber, University of Michigan, Ann Arbor USA. Thermoelastic instabilities in brakes and clutches

Conference organization

* Co-organizer of the world conference ICEM12 (Int Conf on Experimental Mechanics, www.icem12.poliba.it) in Bari, Italy, 29 Aug.-2 Sept. 2004.

* Co-organizer of the world conference Icf11 (International Congress on Fracture, www.icf11.com) in Torino, March 2005

* International Scientific Committee of the world conference Icf (International Congress on Fracture) 2009, 2013

* Co-organizer of the Italian conference on Fracture, in Bari, June 2000

Journal board memberships

- Member of Editorial Board of International Journal of Aerospace and Lightweight Structures (IJALS), from 2011-
- Member of Editorial Board of International Journal of Solids & Structures, from Sept. 05 to May 08.
- Member of Editorial Board of Fat Fract Eng Mat & Struct, from Feb. 07-Feb. 12.
- Member of Editorial Board of Acta Tribologica from Dec. 08-.
- Member of editorial board of Int J Mechanical Science, Elsevier, Impact factor 2.88, since 2017.

Administrative roles

- Rector's delegate for Politecnico di BARI for research with CNR (from 2010-2014)

Scientific committees membership

- Member of International Scientific Committee of CISIT - International Campus on Safety and Intermodality in Transportation, set in 2007 to address strategic aspects of transport in Nord Pas de Calais. This center groups 360 people, researchers, teachers, engineers, post-graduates, post-doctorates and assistants, and for 2007-2013 period, disposed of 46 M€ budget from various regional-state-european sources. Includes Ecole Centrale de Lille, Ecole des Mines de Douai, Université d'Artois, Université des Sciences et Technologies de Lille, Université de Valenciennes et du Hainaut-Cambrésis, IFFSTTAR, ONERA, and other research centers.
- International Panel member of Phd Programs in Mechanics at Ecole Centrale de Lille, Univ Valencia, Univ Sevilla, Politecnico di Torino

Research interests

His interests are in contact mechanics, adhesion, tribology, friction, wear, fatigue, fracture mechanics of elastic and viscoelastic media, corrugation of railways tracks, delamination and peeling.

H-index and other bibliometric data (on scopus)

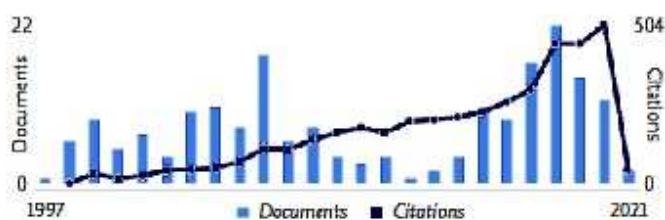
Metrics overview

198 Documents by author

3969 Citations by 2617 documents

34 h-index:

Document & citation trends



Participation in conferences

Has participated to many conferences of national and international standing, on the subjects of solid mechanics, fatigue, fracture, contact mechanics. He has taken part to almost all the editions of the Italian conference AIAS (from 1995), to various editions of the conference of the Italian Group of Fracture (IGF), to at least 2 International Congress of Fracture (ICF), etc.

Notable invited speeches at IMAC Conference and Exposition on Structural Dynamics 2014 ; 12th International Conference on Fracture 2009, ICF-12; ASME/STLE International Joint Tribology Conference, IJTC 2007; 11th International Conference on Fracture 2005, ICF11; ASME/STLE International Joint Tribology Conference, IJTC 2004; 2003 STLE/ASME Joint International Tribology Conference; Ponte Vedra Beach, FL; Fretting Fatigue: Advances in Basic Understanding and Applications; Nagaoka, Japan; 15 May 2001; The 2nd International Symposium on Fretting Fatigue: Current Technology and Practices; Salt Lake City, UT, USA; ; 31 August 1998 ; PACAM 1999

In particular, we remark invited lectures below.

Selection of special awards & invited lectures

- * Invited visiting “maitre de conference” at Ecole Polytechnique, Paris Palaiseau, Dec 07/Oct 2008
- * Invited at NSF workshop on Friction modelling in Washington 14-15 Oct 2006
- * Invitato at SNL/AWE/NSF International Workshop on Joint Mechanics, Dartington, United Kingdom, 27–29 April 2009
- * Invited lecture at Thermo-mechanical modelling of solids – Ecole Polytechnique, Paris Palaiseau 9-12 July 2007
- * Invited by the US Air Force (*WOS Windows On Science* program) to a cycle of conferences on Fretting Fatigue at MIT (Prof. Subra Suresh), Purdue University (Prof. T. Farris), Wright Patterson AF Research Lab (Dr. Ted Nicholas), UC Berkeley (Prof. Robert Ritchie), February, 2000. For presenting the work on Fretting to the Universities and the labs connected to the MU (Multi University Research Initiative) of the USAF
- * Invited by the Inst. of Physics (UK) to give a lecture at the workshop “Tribological Failure Mechanisms in Repeated Rolling Contacts” – Robinson College, Cambridge - 22 July 2003
- * Invited by the Inst. of Physics (UK) to give a lecture at the workshop “Contact Mechanics”, Bristol, march 2004
- * 1998 Capocaccia National Prize of the Italian Stress Analysis Association (AIAS), for outstanding contribution to the study of frictional contact.
- * CNR final prize after the grant spent in Feb. 1998 – August 1998 at University of Oxford, UK
- * CNR “short term” fellowship travel grants: in July-August 1997, to University of Michigan, visiting Prof. JR Barber, in July-August 1999, to University of Oxford, visiting Prof. DA Hills, in July-August 2000, to University of Harvard, visiting Prof. JR Rice, in July-August 2001, to University of Oxford, visiting Dr. D. Nowell

Selection of grants

* *Centre of Excellence in Computational Mechanics (CEMeC)*, from 2001--ongoing, as **co-PI** and member of Managing Board (PI prof. Michele Napolitano). Also, Director of research line on “Thermoelastic and Fatigue contact problems”, at Politecnico di Bari. Funded by Italian Minister for Research and Education with **750 kEu**. Popped up grant by Politecnico di Bari to 1MEu.

PROMOMAT project* on multiscale computational mechanics for hi/tech composite materials and coatings, involving a large number of companies and academic partners in Italy. 2002-ongoing. **PI, about **100 kEu**.

Research project of national interest (PRIN2004)*, 2005-2006, on “Residual and multiaxial stress states in rolling contact fatigue problems”, **PI, funded locally with **30.4kEu**

Vigoni project*, 2006-2007 as **PI with University of Hamburg and Stuttgart. Funded by DAAD and CRUI, with **5 kEu**.

**Galileo project 2004/2005 Egide/ CRUI Conferenza dei Rettori*, 2002, with Dr. Robert Wood & Dr. Singellakis (Univ. Southampton):- Optimisation and testing of surface protection coatings for hot components of turbines. Travel Grant. Funded for ≈US\$ 5k.

AUTOCON - Brite Euram European Network Framework V Project on "Intermittency in Electrical Connectors"*, 2002-2006, **local PI, Coordinator: Dr. John McBride (Univ. Southampton). Funded locally with **100 kEu**.

*Network on COmputational MEchanics of Solids (COMES), CNR, PI, 1999-2001, ITL 40 ml. (≈**20kEu**). Funded.

*“Progetto Finalizzato Materiali Speciali per Tecnologie Avanzate II - PFMSTA II” **co/PI** with DPPI-Politecnico di Ba(Proff. Monno e Demelio), CNR, 1999-2000, ITL.29 ml. (≈**15kEu**).

Spin offs

*Co-founder of the “Polimech” small consulting spin-off company of Politecnico di BARI, dealing with various small projects with local companies.

Teaching activities

* 1999-2002 course on “Machine Design”, University of Potenza (It)

* 2002- to date. Teaching 12 ECTS courses, generally 2 undergraduate (BSc) courses on “Machine Design” & “Mechanics and strength of Materials”, and often 1 graduate course (MSc level) on “FEM in Mechanical Design”. Politecnico di Bari (It). Has occasionally given courses in “Optimization methods”, “Experimental mechanics”.

* 2015- to date. Has been teaching at Phd level “Contact mechanics”, and “Hands-on-Ansys”.

Students thesis

More than 30 Master thesis, and about 10 Phd thesis (Paolo Decuzzi, Vito Tagarielli, Luciano Afferrante, Sonia di Bello (withdrawn), Cosmo Murolo, Carmine Putignano, Pietro D’Antuono), and collaboration with various phd thesis at U Michigan (Yun Bo Yi, Yong Hoon Jang) and U Oxford (P Blomerus, D Dini).

Some former students

D Dini, MSc 1999, presently Professor of Tribology at Imperial College UK Mechanical Engineering

L Afferrante, Phd 2003, presently Associate Professor, Politecnico di Bari, It

P. Decuzzi, Phd, 2002, presently Senior Researcher at Italian Institute of Technology

V Tagarielli, MSc 1999, presently Sen. Lecturer at Imperial College UK Aeronautical Engineering

A Cirilli, MSc 2001, presently CEO, Getrag, Mexico

F Giove, MSc 2002, presently director of R&D, CCValve, USA

Pietro D’Antuono, presently post-doc and spin-off manager, Bruxelles

And others

Key collaborations

Papers have been written in collaboration with colleagues from Michigan U (Jim Barber), Oxford U (David Hills, David Nowell), Harvard U (Jim Rice, Joost Vlassak), Ecole Polytechnique (H.Maitournam, A. Constantinescu), Politecnico di Torino (Dino Chiaia, Nicola Pugno, Marco Paggi, and Alberto Carpinteri), Leicester U in UK (Alan Ponter), Università di Padova (Paolo Lazzarin), Università di Modena (Antonio Strozzi), Univ Hamburg (N. Hoffmann). Imperial College (D. Dini, V. Tagarielli), and many others.

Reviewing activities

Regular reviewer for journals in mechanical engineering, including • Tribology International • Wear • International Journal of Solids and Structures • International Journal of Mechanical Science • Journal of Mechanical Engineering Science • Applied Thermal Engineering • Tribology International • ASME - Journal of Tribology • Mathematical Problems in Engineering • Journal of Vibration and Control • Journal of Engineering Mathematics • Applications and Applied Mathematics • The Open Mechanics Journal

List of papers on international journals ISI

SCOPUS

EXPORT DATE:04 JAN 2021

CIAVARELLA, M.

COMMENTS ON OLD AND RECENT THEORIES AND EXPERIMENTS OF ADHESION OF A SOFT SOLID TO A ROUGH HARD SURFACE

(2021) TRIBOLOGY INTERNATIONAL, 155, ART. NO. 106779, .

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097218571&doi=10.1016%2FJ.TRIBOINT.2020.106779&partnerid=40&md5=BF36D34E8B3B4A01590EF9B3A6ABADEC)

[85097218571&DOI=10.1016%2FJ.TRIBOINT.2020.106779&PARTNERID=40&MD5=BF36D34E8B3B4A01590EF9B3A6ABADEC](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097218571&doi=10.1016%2FJ.TRIBOINT.2020.106779&partnerid=40&md5=BF36D34E8B3B4A01590EF9B3A6ABADEC)

DOI: 10.1016/J.TRIBOINT.2020.106779

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

ZAZA, D., CIAVARELLA, M., ZURLO, G.

STRAIN INCOMPATIBILITY AS A SOURCE OF RESIDUAL STRESS IN WELDING AND ADDITIVE MANUFACTURING

(2021) EUROPEAN JOURNAL OF MECHANICS, A/SOLIDS, 85, ART. NO. 104147, .

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093660890&doi=10.1016%2FJ.EUROMECHSOL.2020.104147&partnerid=40&md5=FAC058239B6D8A0005157074ED5177DC)

[85093660890&DOI=10.1016%2FJ.EUROMECHSOL.2020.104147&PARTNERID=40&MD5=FAC058239B6D8A0005157074ED5177DC](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093660890&doi=10.1016%2FJ.EUROMECHSOL.2020.104147&partnerid=40&md5=FAC058239B6D8A0005157074ED5177DC)

DOI: 10.1016/J.EUROMECHSOL.2020.104147

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

PAPANGELO, A., LOVINO, R., CIAVARELLA, M.

ELECTROADHESIVE SPHERE-FLAT CONTACT PROBLEM: A COMPARISON BETWEEN DMT AND FULL ITERATIVE FINITE ELEMENT SOLUTIONS

(2020) TRIBOLOGY INTERNATIONAL, 152, ART. NO. 106542, .

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089285606&doi=10.1016%2FJ.TRIBOINT.2020.106542&partnerid=40&md5=391C5F26CB5A71F27A14AAACC3F26509)

[85089285606&DOI=10.1016%2FJ.TRIBOINT.2020.106542&PARTNERID=40&MD5=391C5F26CB5A71F27A14AAACC3F26509](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089285606&doi=10.1016%2FJ.TRIBOINT.2020.106542&partnerid=40&md5=391C5F26CB5A71F27A14AAACC3F26509)

DOI: 10.1016/J.TRIBOINT.2020.106542
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CRICRÌ, G., CIAVARELLA, M.
ON THE EFFECT OF THE LOADING APPARATUS STIFFNESS ON THE EQUILIBRIUM AND
STABILITY OF SOFT ADHESIVE CONTACTS UNDER SHEAR LOADS
(2020) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 144, ART. NO. 104099, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
85088637685&DOI=10.1016%2FJ.JMPS.2020.104099&PARTNERID=40&MD5=BA7F2F61A9D06437A3B7
5B62B428D0F7](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088637685&doi=10.1016%2FJ.JMPS.2020.104099&partnerid=40&md5=BA7F2F61A9D06437A3B75B62B428D0F7)

DOI: 10.1016/J.JMPS.2020.104099
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
A NUMERICAL STUDY ON ROUGHNESS-INDUCED ADHESION ENHANCEMENT IN A SPHERE
WITH AN AXISYMMETRIC SINUSOIDAL WAVINESS USING LENNARD-JONES INTERACTION LAW
(2020) LUBRICANTS, 8 (9), ART. NO. 90, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
85091713900&DOI=10.3390%2FLUBRICANTS8090090&PARTNERID=40&MD5=7045ADAB5251D72A0F
5C1AD581DD35E0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091713900&doi=10.3390%2FLUBRICANTS8090090&partnerid=40&md5=7045ADAB5251D72A0F5C1AD581DD35E0)

DOI: 10.3390/LUBRICANTS8090090
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
ON THE DEGREE OF IRREVERSIBILITY OF FRICTION IN SHEARED SOFT ADHESIVE CONTACTS
(2020) TRIBOLOGY LETTERS, 68 (3), ART. NO. 81, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
85088450310&DOI=10.1007%2FS11249-020-01318-
5&PARTNERID=40&MD5=C2ADED476782D8752CB08F97D054D5E2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088450310&doi=10.1007%2FS11249-020-01318-5&partnerid=40&md5=C2ADED476782D8752CB08F97D054D5E2)

DOI: 10.1007/S11249-020-01318-5
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

QIAO, Y., CIAVARELLA, M., YI, Y.-B., WANG, T.
EFFECT OF WEAR ON FRICTIONALLY EXCITED THERMOELASTIC INSTABILITY: A FINITE
ELEMENT APPROACH
(2020) JOURNAL OF THERMAL STRESSES, 43 (12), PP. 1564-1576.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
85088857297&DOI=10.1080%2F01495739.2020.1792379&PARTNERID=40&MD5=3DE9D2EADFE886321
3213FF60C76391A](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088857297&doi=10.1080%2F01495739.2020.1792379&partnerid=40&md5=3DE9D2EADFE8863213213FF60C76391A)

DOI: 10.1080/01495739.2020.1792379
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
UNIVERSAL FEATURES IN “STICKINESS” CRITERIA FOR SOFT ADHESION WITH ROUGH SURFACES
(2020) TRIBOLOGY INTERNATIONAL, 146, ART. NO. 106031, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85074323097&DOI=10.1016%2FJ.TRIBOINT.2019.106031&PARTNERID=40&MD5=28990343DD0D89C02FCD358A6807B094](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074323097&doi=10.1016%2FJ.TRIBOINT.2019.106031&partnerid=40&md5=28990343DD0D89C02FCD358A6807B094)

DOI: 10.1016/J.TRIBOINT.2019.106031
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

D'ANTUONO, P., CIAVARELLA, M.
MEAN STRESS EFFECT ON GAßNER CURVES INTERPRETED AS SHIFTED WÖHLER CURVES AND APPLICATION TO SMOOTH AND NOTCHED GEOMETRIES
(2020) FATIGUE AND FRACTURE OF ENGINEERING MATERIALS AND STRUCTURES, 43 (4), PP. 818-830.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85080826743&DOI=10.1111%2FFFE.13197&PARTNERID=40&MD5=0E7BAAC9D4ECC11DA80BE98B01650EE1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080826743&doi=10.1111%2FFFE.13197&partnerid=40&md5=0E7BAAC9D4ECC11DA80BE98B01650EE1)

DOI: 10.1111/FFE.13197
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A., BARBER, J.R.
EFFECT OF WEAR ON THE EVOLUTION OF CONTACT PRESSURE AT A BIMATERIAL SLIDING INTERFACE
(2020) TRIBOLOGY LETTERS, 68 (1), ART. NO. 27, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85078308499&DOI=10.1007%2FS11249-020-1269-1&PARTNERID=40&MD5=0A57BF87306BA69EF7C70114E72E0911](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078308499&doi=10.1007%2FS11249-020-1269-1&partnerid=40&md5=0A57BF87306BA69EF7C70114E72E0911)

DOI: 10.1007/S11249-020-1269-1
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
THE EFFECT OF WEAR ON THERMOELASTIC INSTABILITIES (TEI) IN BIMATERIAL INTERFACES
(2020) TRIBOLOGY INTERNATIONAL, 142, ART. NO. 105977, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85072729130&DOI=10.1016%2FJ.TRIBOINT.2019.105977&PARTNERID=40&MD5=B3532016EA98E8F08504E7FD5FB52BD1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072729130&doi=10.1016%2FJ.TRIBOINT.2019.105977&partnerid=40&md5=B3532016EA98E8F08504E7FD5FB52BD1)

DOI: 10.1016/J.TRIBOINT.2019.105977
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., CRICRÌ, G.
ON THE APPLICATION OF FRACTURE MECHANICS MIXED-MODE MODELS OF SLIDING WITH FRICTION AND ADHESION
(2020) BIOINSPIRATION AND BIOMIMETICS, 15 (1), ART. NO. 015003, .

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85075813350&DOI=10.1088%2F1748-3190%2FAB53C0&PARTNERID=40&MD5=17CC0AEA2CF927D6401A393528404B8D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075813350&doi=10.1088%2F1748-3190%2FAB53C0&partnerid=40&md5=17CC0AEA2CF927D6401A393528404B8D)

DOI: 10.1088/1748-3190/AB53C0
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

ARGATOV, I., PAPANGELO, A., CIAVARELLA, M.
ELLIPTICAL ADHESIVE CONTACT UNDER BIAXIAL STRETCHING
(2020) PROCEEDINGS OF THE ROYAL SOCIETY A: MATHEMATICAL, PHYSICAL AND
ENGINEERING SCIENCES, 476 (2233), ART. NO. 20190507, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85079666474&DOI=10.1098%2FRSPA.2019.0507&PARTNERID=40&MD5=3035FDFD870523EF14703D7E7D6E81CA](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079666474&doi=10.1098%2FRSPA.2019.0507&partnerid=40&md5=3035FDFD870523EF14703D7E7D6E81CA)

DOI: 10.1098/RSPA.2019.0507
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

GENOVESE, A., CARPUTO, F., CIAVARELLA, M., FARRONI, F., PAPANGELO, A., SAKHNEVYCH, A.
ANALYSIS OF MULTISCALE THEORIES FOR VISCOELASTIC RUBBER FRICTION
(2020) LECTURE NOTES IN MECHANICAL ENGINEERING, PP. 1125-1135.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85083988850&DOI=10.1007%2F978-3-030-41057-5_91&PARTNERID=40&MD5=A95121B30C91265B59378063256E13A3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083988850&doi=10.1007%2F978-3-030-41057-5_91&partnerid=40&md5=A95121B30C91265B59378063256E13A3)

DOI: 10.1007/978-3-030-41057-5_91
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

D'ANTUONO, P., CIAVARELLA, M.
CITATION DOPING NOT FOR ITALY'S ELITES
(2019) NATURE, 574 (7778), P. 333.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85073406439&DOI=10.1038%2FD41586-019-03119-W&PARTNERID=40&MD5=795772C9A25FB7C9E16F14E358A9E563](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073406439&doi=10.1038%2FD41586-019-03119-W&partnerid=40&md5=795772C9A25FB7C9E16F14E358A9E563)

DOI: 10.1038/D41586-019-03119-W
DOCUMENT TYPE: NOTE
SOURCE: SCOPUS

GENOVESE, A., FARRONI, F., PAPANGELO, A., CIAVARELLA, M.
A DISCUSSION ON PRESENT THEORIES OF RUBBER FRICTION, WITH PARTICULAR REFERENCE
TO DIFFERENT POSSIBLE CHOICES OF ARBITRARY ROUGHNESS CUTOFF PARAMETERS
(2019) LUBRICANTS, 7 (10), ART. NO. 85, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85074530862&DOI=10.3390%2FLUBRICANTS7100085&PARTNERID=40&MD5=5B3F59E6BF487A86890413F7960C7397](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074530862&doi=10.3390%2FLUBRICANTS7100085&partnerid=40&md5=5B3F59E6BF487A86890413F7960C7397)

DOI: 10.3390/LUBRICANTS7100085
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

DIDONNA, M., STENDER, M., PAPANGELO, A., FONTANELA, F., CIAVARELLA, M., HOFFMANN, N.
RECONSTRUCTION OF GOVERNING EQUATIONS FROM VIBRATION MEASUREMENTS FOR
GEOMETRICALLY NONLINEAR SYSTEMS
(2019) LUBRICANTS, 7 (8), ART. NO. 64, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85071170792&DOI=10.3390%2FLUBRICANTS7080064&PARTNERID=40&MD5=7F8AC71A2797231961E490D0E15D83D0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071170792&doi=10.3390%2Flubricants7080064&partnerid=40&md5=7f8ac71a2797231961e490d0e15d83d0)

DOI: 10.3390/LUBRICANTS7080064
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

ACITO, V., CIAVARELLA, M., PREVOST, A.M., CHATEAUMINOIS, A.
ADHESIVE CONTACT OF MODEL RANDOMLY ROUGH RUBBER SURFACES
(2019) TRIBOLOGY LETTERS, 67 (2), ART. NO. 54, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85064013251&DOI=10.1007%2FS11249-019-1164-9&PARTNERID=40&MD5=96A23861DE7E7A60FD00D76A9D81BA6D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064013251&doi=10.1007%2FS11249-019-1164-9&partnerid=40&md5=96a23861de7e7a60fd00d76a9d81ba6d)

DOI: 10.1007/S11249-019-1164-9
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., SCHEIBERT, J., SAHLI, R., PALLARES, G., CIAVARELLA, M.
SHEAR-INDUCED CONTACT AREA ANISOTROPY EXPLAINED BY A FRACTURE MECHANICS
MODEL
(2019) PHYSICAL REVIEW E, 99 (5), ART. NO. 053005, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85066449824&DOI=10.1103%2FPHYSREVE.99.053005&PARTNERID=40&MD5=C7A1328894D57195161306DC5F0DE577](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066449824&doi=10.1103%2Fphysreve.99.053005&partnerid=40&md5=c7a1328894d57195161306dc5f0de577)

DOI: 10.1103/PHYSREVE.99.053005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

SAHLI, R., PALLARES, G., PAPANGELO, A., CIAVARELLA, M., DUCOTTET, C., PONTIUS, N.,
SCHEIBERT, J.
SHEAR-INDUCED ANISOTROPY IN ROUGH ELASTOMER CONTACT
(2019) PHYSICAL REVIEW LETTERS, 122 (21), ART. NO. 214301, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85066433512&DOI=10.1103%2FPHYSREVLETT.122.214301&PARTNERID=40&MD5=F3862E1E5E30236FF3B84AD04BAC4EF1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066433512&doi=10.1103%2Fphysrevlett.122.214301&partnerid=40&md5=f3862e1e5e30236ff3b84ad04bac4ef1)

DOI: 10.1103/PHYSREVLETT.122.214301
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
EXTENSIONS AND COMPARISONS OF BAM (BEARING AREA MODEL) FOR STICKINESS OF HARD
MULTISCALE RANDOMLY ROUGH SURFACES
(2019) TRIBOLOGY INTERNATIONAL, 133, PP. 263-270.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85060352777&DOI=10.1016%2FJ.TRIBOINT.2018.10.001&PARTNERID=40&MD5=6DD034AAD710A7EAFC342B422CF29F9D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060352777&doi=10.1016%2FJ.TRIBOINT.2018.10.001&partnerid=40&md5=6DD034AAD710A7EAFC342B422CF29F9D)

DOI: 10.1016/J.TRIBOINT.2018.10.001
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

TRICARICO, M., PAPANGELO, A., CONSTANTINESCU, A., CIAVARELLA, M.
ON ADHESIVE THEORIES IN MULTILAYERED INTERFACES, WITH PARTICULAR REGARD TO
"SURFACE FORCE APPARATUS" GEOMETRY
(2019) FACTA UNIVERSITATIS, SERIES: MECHANICAL ENGINEERING, 17 (1), PP. 95-102.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85064148174&DOI=10.22190%2FFUME190118011T&PARTNERID=40&MD5=C004A592253E4D189C234934BDDB9F8B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064148174&doi=10.22190%2FFUME190118011T&partnerid=40&md5=C004A592253E4D189C234934BDDB9F8B)

DOI: 10.22190/FUME190118011T
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
ON MIXED-MODE FRACTURE MECHANICS MODELS FOR CONTACT AREA REDUCTION UNDER
SHEAR LOAD IN SOFT MATERIALS
(2019) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 124, PP. 159-171.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85055046525&DOI=10.1016%2FJ.JMPS.2018.10.011&PARTNERID=40&MD5=5E077E82C1DD32B70A103F00FEDA141A](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055046525&doi=10.1016%2FJ.JMPS.2018.10.011&partnerid=40&md5=5E077E82C1DD32B70A103F00FEDA141A)

DOI: 10.1016/J.JMPS.2018.10.011
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., GUARINO, R., PUGNO, N., CIAVARELLA, M.
ON UNIFIED CRACK PROPAGATION LAWS
(2019) ENGINEERING FRACTURE MECHANICS, 207, PP. 269-276.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85059767936&DOI=10.1016%2FJ.ENGFRACMECH.2018.12.023&PARTNERID=40&MD5=ABA65D129B7E6F5E329D709793DB6A67](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059767936&doi=10.1016%2FJ.ENGFRACMECH.2018.12.023&partnerid=40&md5=ABA65D129B7E6F5E329D709793DB6A67)

DOI: 10.1016/J.ENGFRACMECH.2018.12.023
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., FONTANELA, F., GROLET, A., CIAVARELLA, M., HOFFMANN, N.
MULTISTABILITY AND LOCALIZATION IN FORCED CYCLIC SYMMETRIC STRUCTURES
MODELLED BY WEAKLY-COUPLED DUFFING OSCILLATORS
(2019) JOURNAL OF SOUND AND VIBRATION, 440, PP. 202-211.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85055557914&DOI=10.1016%2FJ.JSV.2018.10.028&PARTNERID=40&MD5=89BC7BC98E9F016374225361B65FC156](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055557914&doi=10.1016%2FJ.JSV.2018.10.028&partnerid=40&md5=89BC7BC98E9F016374225361B65FC156)

DOI: 10.1016/J.JSV.2018.10.028

DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
SOME SIMPLE RESULTS ON THE MULTISCALE VISCOELASTIC FRICTION
(2019) FACTA UNIVERSITATIS, SERIES: MECHANICAL ENGINEERING, 17 (2), PP. 191-205.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85073288415&DOI=10.22190%2FFUME190215025C&PARTNERID=40&MD5=CA812771926C7D675A064B9A18EF58E2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073288415&doi=10.22190%2FFUME190215025C&partnerid=40&md5=CA812771926C7D675A064B9A18EF58E2)

DOI: 10.22190/FUME190215025C
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., XU, Y., JACKSON, R.L.
THE GENERALIZED TABOR PARAMETER FOR ADHESIVE ROUGH CONTACTS NEAR COMPLETE CONTACT
(2019) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 122, PP. 126-140.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85053786334&DOI=10.1016%2FJ.JMPS.2018.08.011&PARTNERID=40&MD5=93DE6A4AF7F412E6744C81775EF05882](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053786334&doi=10.1016%2FJ.JMPS.2018.08.011&partnerid=40&md5=93DE6A4AF7F412E6744C81775EF05882)

DOI: 10.1016/J.JMPS.2018.08.011
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

VIOLANO, G., AFFERRANTE, L., PAPANGELO, A., CIAVARELLA, M.
ON STICKINESS OF MULTISCALE RANDOMLY ROUGH SURFACES
(2019) JOURNAL OF ADHESION, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85074840890&DOI=10.1080%2F00218464.2019.1685384&PARTNERID=40&MD5=D31F9FF8F5FA4D9E2EDF7FE6CE865660](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074840890&doi=10.1080%2F00218464.2019.1685384&partnerid=40&md5=D31F9FF8F5FA4D9E2EDF7FE6CE865660)

DOI: 10.1080/00218464.2019.1685384
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., JOE, J., PAPANGELO, A., BARBER, J.R.
THE ROLE OF ADHESION IN CONTACT MECHANICS
(2019) JOURNAL OF THE ROYAL SOCIETY INTERFACE, 16 (151), ART. NO. 20180738, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85062341227&DOI=10.1098%2FRSIF.2018.0738&PARTNERID=40&MD5=F255BE1348A6AAE21E697C7CA28CA921](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062341227&doi=10.1098%2FRSIF.2018.0738&partnerid=40&md5=F255BE1348A6AAE21E697C7CA28CA921)

DOI: 10.1098/RSIF.2018.0738
DOCUMENT TYPE: REVIEW
SOURCE: SCOPUS

CIAVARELLA, M., AHN, Y.J.
A NOTE ON THE CRACK ANALOGUE FRETTING FATIGUE MODEL WITH VARYING NORMAL LOAD
(2018) ACTA MECHANICA, 229 (12), PP. 4953-4961.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85055870235&DOI=10.1007%2Fs00707-018-2278-0&PARTNERID=40&MD5=7B67CE82AFBD25E8E4C570B7EF11415D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055870235&doi=10.1007%2Fs00707-018-2278-0&partnerid=40&md5=7B67CE82AFBD25E8E4C570B7EF11415D)

DOI: 10.1007/S00707-018-2278-0
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

BORRI-BRUNETTO, M., CIAVARELLA, M.
ELASTIC INDENTATION OF A ROUGH SURFACE BY A CONICAL PUNCH
(2018) MECCANICA, 53 (13), PP. 3355-3364.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85050189528&DOI=10.1007%2Fs11012-018-0877-4&PARTNERID=40&MD5=9D7A78A158C7232CBFE6541BE9CE7BDD](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050189528&doi=10.1007%2Fs11012-018-0877-4&partnerid=40&md5=9D7A78A158C7232CBFE6541BE9CE7BDD)

DOI: 10.1007/S11012-018-0877-4
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

VAKIS, A.I., YASTREBOV, V.A., SCHEIBERT, J., NICOLA, L., DINI, D., MINFRAY, C., ALMQVIST, A., PAGGI, M., LEE, S., LIMBERT, G., MOLINARI, J.F., ANCIAUX, G., AGHABABAEI, R., ECHEVERRI RESTREPO, S., PAPANGELO, A., CAMMARATA, A., NICOLINI, P., PUTIGNANO, C., CARBONE, G., STUPKIEWICZ, S., LENGIEWICZ, J., COSTAGLIOLA, G., BOSIA, F., GUARINO, R., PUGNO, N.M., MÜSER, M.H., CIAVARELLA, M.
MODELING AND SIMULATION IN TRIBOLOGY ACROSS SCALES: AN OVERVIEW
(2018) TRIBOLOGY INTERNATIONAL, 125, PP. 169-199.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85044579364&DOI=10.1016%2FJ.TRIBOINT.2018.02.005&PARTNERID=40&MD5=C4C76CC075B1C339A02B6FCAD96B2A7F](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044579364&doi=10.1016%2FJ.TRIBOINT.2018.02.005&partnerid=40&md5=C4C76CC075B1C339A02B6FCAD96B2A7F)

DOI: 10.1016/J.TRIBOINT.2018.02.005
DOCUMENT TYPE: REVIEW
SOURCE: SCOPUS

CIAVARELLA, M., CARBONE, G., VINOGRADOV, V.
A CRITICAL ASSESSMENT OF KASSAPOGLOU'S STATISTICAL MODEL FOR COMPOSITES FATIGUE
(2018) FACTA UNIVERSITATIS, SERIES: MECHANICAL ENGINEERING, 16 (2), PP. 115-126.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85051243734&DOI=10.22190%2FFUME180321014C&PARTNERID=40&MD5=F6ABD5189194AD73B778646D56261073](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051243734&doi=10.22190%2FFUME180321014C&partnerid=40&md5=F6ABD5189194AD73B778646D56261073)

DOI: 10.22190/FUME180321014C
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
A JKR SOLUTION FOR A BALL-IN-SOCKET CONTACT GEOMETRY AS A BI-STABLE ADHESIVE SYSTEM
(2018) ACTA MECHANICA, 229 (7), PP. 2835-2842.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85044201207&DOI=10.1007%2FS00707-018-2138-Y&PARTNERID=40&MD5=750F9C23C59C31C5C951D367A02E9E0F](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044201207&doi=10.1007%2FS00707-018-2138-Y&partnerid=40&md5=750F9C23C59C31C5C951D367A02E9E0F)

DOI: 10.1007/S00707-018-2138-Y
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

BERTOCCHI, E., MANTOVANI, S., CIAVARELLA, M.
A SIMPLE METHOD OF ANALYSIS OF PARTIAL SLIP IN SHRINK-FITTED SHAFTS UNDER TORSION
(2018) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 142-143, PP. 541-546.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85047256521&DOI=10.1016%2FJ.IJMECSCI.2018.05.027&PARTNERID=40&MD5=AA3381171B19401B02F90EF4B1726173](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047256521&doi=10.1016%2FJ.IJMECSCI.2018.05.027&partnerid=40&md5=AA3381171B19401B02F90EF4B1726173)

DOI: 10.1016/J.IJMECSCI.2018.05.027
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., D'ANTUONO, P., PAPANGELO, A.
ON THE CONNECTION BETWEEN PALMGREN-MINER RULE AND CRACK PROPAGATION LAWS
(2018) FATIGUE AND FRACTURE OF ENGINEERING MATERIALS AND STRUCTURES, 41 (7), PP. 1469-1475.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85041464444&DOI=10.1111%2FFFE.12789&PARTNERID=40&MD5=DA05C83ADABDAE3428B8BB377369279D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041464444&doi=10.1111%2FFFE.12789&partnerid=40&md5=DA05C83ADABDAE3428B8BB377369279D)

DOI: 10.1111/FFE.12789
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
AN APPROXIMATE JKR SOLUTION FOR A GENERAL CONTACT, INCLUDING ROUGH CONTACTS
(2018) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 114, PP. 209-218.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85043362025&DOI=10.1016%2FJ.JMPS.2018.03.005&PARTNERID=40&MD5=4FF374348E56C9CC5DAB1541F876BC6A](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043362025&doi=10.1016%2FJ.JMPS.2018.03.005&partnerid=40&md5=4FF374348E56C9CC5DAB1541F876BC6A)

DOI: 10.1016/J.JMPS.2018.03.005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
DISCUSSION ON "EFFECT OF OUT-OF-PHASE LOADING ON FRETTING FATIGUE RESPONSE OF AL7075-T6 UNDER CYCLIC NORMAL LOADING USING A NEW TESTING APPARATUS" BY F. ABBASI AND G.H. MAJZOBI
(2018) ENGINEERING FRACTURE MECHANICS, 192, PP. 205-209.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85041576840&DOI=10.1016%2FJ.ENGFRACMECH.2018.01.031&PARTNERID=40&MD5=214ADE50C34FC06D100DA14286A85A4C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041576840&doi=10.1016%2FJ.ENGFRACMECH.2018.01.031&partnerid=40&md5=214ADE50C34FC06D100DA14286A85A4C)

DOI: 10.1016/J.ENGFRACMECH.2018.01.031
DOCUMENT TYPE: NOTE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
ON NOTCH AND CRACK SIZE EFFECTS IN FATIGUE, PARIS' LAW AND IMPLICATIONS FOR
WÖHLER CURVES
(2018) FRATTURA ED INTEGRITA STRUTTURALE, 12 (44), PP. 49-63.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85045752468&DOI=10.3221%2FIGF-ESIS.44.05&PARTNERID=40&MD5=05EE812EC613A99923B39ACC5167194F](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045752468&doi=10.3221%2FIGF-ESIS.44.05&partnerid=40&md5=05EE812EC613A99923B39ACC5167194F)

DOI: 10.3221/IGF-ESIS.44.05
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., HOFFMANN, N., GROLET, A., STENDER, M., CIAVARELLA, M.
MULTIPLE SPATIALLY LOCALIZED DYNAMICAL STATES IN FRICTION-EXCITED OSCILLATOR
CHAINS
(2018) JOURNAL OF SOUND AND VIBRATION, 417, PP. 56-64.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85041533814&DOI=10.1016%2FJ.JSV.2017.11.056&PARTNERID=40&MD5=F1344C2DAC0912C395100B378B3990B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041533814&doi=10.1016%2FJ.JSV.2017.11.056&partnerid=40&md5=F1344C2DAC0912C395100B378B3990B)

DOI: 10.1016/J.JSV.2017.11.056
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
ON THE DISTRIBUTION AND SCATTER OF FATIGUE LIVES OBTAINED BY INTEGRATION OF
CRACK GROWTH CURVES: DOES INITIAL CRACK SIZE DISTRIBUTION MATTER?
(2018) ENGINEERING FRACTURE MECHANICS, 191, PP. 111-124.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85041468572&DOI=10.1016%2FJ.ENGFRACMECH.2018.01.019&PARTNERID=40&MD5=5DE050A59D0A1B406FC2724FBD68C755](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041468572&doi=10.1016%2FJ.ENGFRACMECH.2018.01.019&partnerid=40&md5=5DE050A59D0A1B406FC2724FBD68C755)

DOI: 10.1016/J.ENGFRACMECH.2018.01.019
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
A COMMENT ON "MEETING THE CONTACT-MECHANICS CHALLENGE" BY MUSER ET AL. [1]
(2018) TRIBOLOGY LETTERS, 66 (1), ART. NO. 37, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85041590698&DOI=10.1007%2FS11249-018-0985-2&PARTNERID=40&MD5=00983B3EC832ABCF0E1CEEABE22E3261](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041590698&doi=10.1007%2FS11249-018-0985-2&partnerid=40&md5=00983B3EC832ABCF0E1CEEABE22E3261)

DOI: 10.1007/S11249-018-0985-2
DOCUMENT TYPE: NOTE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
ADHESION OF SURFACES WITH WAVY ROUGHNESS AND A SHALLOW DEPRESSION

(2018) MECHANICS OF MATERIALS, 118, PP. 11-16.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042091298&doi=10.1016%2FJ.MECHMAT.2017.12.005&partnerid=40&md5=C4F18688A155B2D198B154E36FA0C14F)

[85042091298&DOI=10.1016%2FJ.MECHMAT.2017.12.005&PARTNERID=40&MD5=C4F18688A155B2D198B154E36FA0C14F](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042091298&doi=10.1016%2FJ.MECHMAT.2017.12.005&partnerid=40&md5=C4F18688A155B2D198B154E36FA0C14F)

DOI: 10.1016/J.MECHMAT.2017.12.005

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.

A MODIFIED FORM OF PASTEWKA–ROBBINS CRITERION FOR ADHESION

(2018) JOURNAL OF ADHESION, 94 (2), PP. 155-165.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015730641&doi=10.1080%2F00218464.2017.1292139&partnerid=40&md5=D1C9F9BBFDAB7FF177C45A03741565D9)

[85015730641&DOI=10.1080%2F00218464.2017.1292139&PARTNERID=40&MD5=D1C9F9BBFDAB7FF177C45A03741565D9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015730641&doi=10.1080%2F00218464.2017.1292139&partnerid=40&md5=D1C9F9BBFDAB7FF177C45A03741565D9)

DOI: 10.1080/00218464.2017.1292139

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M.

FRACTURE MECHANICS SIMPLE CALCULATIONS TO EXPLAIN SMALL REDUCTION OF THE REAL CONTACT AREA UNDER SHEAR

(2018) FACTA UNIVERSITATIS, SERIES: MECHANICAL ENGINEERING, 16 (1), PP. 87-91.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042080321&doi=10.22190%2FFUME180108007C&partnerid=40&md5=7EC405C507585905AA5315A6B964E4CC)

[85042080321&DOI=10.22190%2FFUME180108007C&PARTNERID=40&MD5=7EC405C507585905AA5315A6B964E4CC](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042080321&doi=10.22190%2FFUME180108007C&partnerid=40&md5=7EC405C507585905AA5315A6B964E4CC)

DOI: 10.22190/FUME180108007C

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M.

A SIMPLIFIED VERSION OF PERSSON'S MULTISCALE THEORY FOR RUBBER FRICTION DUE TO VISCOELASTIC LOSSES

(2018) JOURNAL OF TRIBOLOGY, 140 (1), ART. NO. 011403, .

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027243897&doi=10.1115%2F1.4036917&partnerid=40&md5=FE65819214DA9479952DFA58BD755054)

[85027243897&DOI=10.1115%2F1.4036917&PARTNERID=40&MD5=FE65819214DA9479952DFA58BD755054](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027243897&doi=10.1115%2F1.4036917&partnerid=40&md5=FE65819214DA9479952DFA58BD755054)

DOI: 10.1115/1.4036917

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M.

A VERY SIMPLE ESTIMATE OF ADHESION OF HARD SOLIDS WITH ROUGH SURFACES BASED ON A BEARING AREA MODEL

(2018) MECCANICA, 53 (1-2), PP. 241-250.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019623839&doi=10.1007%2FS11012-017-0701-6&partnerid=40&md5=1F747AD517779A79CBA4E731B50FB9D6)

[85019623839&DOI=10.1007%2FS11012-017-0701-6&PARTNERID=40&MD5=1F747AD517779A79CBA4E731B50FB9D6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019623839&doi=10.1007%2FS11012-017-0701-6&partnerid=40&md5=1F747AD517779A79CBA4E731B50FB9D6)

DOI: 10.1007/S11012-017-0701-6
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
ON THE SENSITIVITY OF ADHESION BETWEEN ROUGH SURFACES TO ASPERITY HEIGHT
DISTRIBUTION
(2018) PHYSICAL MESOMECHANICS, 21 (1), PP. 59-66.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85043387133&DOI=10.1134%2FS1029959918010083&PARTNERID=40&MD5=E1973B583F60F4A7EA7F6CC106297F2D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043387133&doi=10.1134%2FS1029959918010083&partnerid=40&md5=E1973B583F60F4A7EA7F6CC106297F2D)

DOI: 10.1134/S1029959918010083
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
THE “SPORT” OF ROUGH CONTACTS AND THE FRACTAL PARADOX IN WEAR LAWS
(2018) FACTA UNIVERSITATIS, SERIES: MECHANICAL ENGINEERING, 16 (1), PP. 65-75.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85042076504&DOI=10.22190%2FFUME180109011C&PARTNERID=40&MD5=DBDE1A3119F57C58A9A8A064BEB72571](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042076504&doi=10.22190%2FFUME180109011C&partnerid=40&md5=DBDE1A3119F57C58A9A8A064BEB72571)

DOI: 10.22190/FUME180109011C
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
A GENERALIZED JOHNSON PARAMETER FOR PULL-OFF DECAY IN THE ADHESION OF ROUGH
SURFACES
(2018) PHYSICAL MESOMECHANICS, 21 (1), PP. 67-75.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85042065599&DOI=10.1134%2FS1029959918010095&PARTNERID=40&MD5=2979AC205D2025F54F65A7E04776CCF6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042065599&doi=10.1134%2FS1029959918010095&partnerid=40&md5=2979AC205D2025F54F65A7E04776CCF6)

DOI: 10.1134/S1029959918010095
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., XU, Y., JACKSON, R.L.
SOME CLOSED-FORM RESULTS FOR ADHESIVE ROUGH CONTACTS NEAR COMPLETE CONTACT
ON LOADING AND UNLOADING IN THE JOHNSON, KENDALL, AND ROBERTS REGIME
(2018) JOURNAL OF TRIBOLOGY, 140 (1), ART. NO. 011402, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85026900334&DOI=10.1115%2F1.4036915&PARTNERID=40&MD5=46ECE78CDD52B5343255A8E7F10DFA09](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026900334&doi=10.1115%2F1.4036915&partnerid=40&md5=46ECE78CDD52B5343255A8E7F10DFA09)

DOI: 10.1115/1.4036915
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., HOFFMANN, N., CIAVARELLA, M.

LOAD-SEPARATION CURVES FOR THE CONTACT OF SELF-AFFINE ROUGH SURFACES
(2017) SCIENTIFIC REPORTS, 7 (1), ART. NO. 6900, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85026503341&DOI=10.1038%2FS41598-017-07234-4&PARTNERID=40&MD5=FDAEA7DFF5CA55D27429A1CDC22725F1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026503341&doi=10.1038%2FS41598-017-07234-4&partnerid=40&md5=fdaea7dff5ca55d27429a1cdc22725f1)

DOI: 10.1038/S41598-017-07234-4
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
A RANDOM PROCESS ASPERITY MODEL FOR ADHESION BETWEEN ROUGH SURFACES
(2017) JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, 31 (22), PP. 2445-2467.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85016081001&DOI=10.1080%2F01694243.2017.1304856&PARTNERID=40&MD5=D2B68461331CF835058F1CF892D0C47E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016081001&doi=10.1080%2F01694243.2017.1304856&partnerid=40&md5=d2b68461331cf835058f1cf892d0c47e)

DOI: 10.1080/01694243.2017.1304856
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A.
DISCUSSION OF "MEASURING AND UNDERSTANDING CONTACT AREA AT THE NANOSCALE: A REVIEW" (JACOBS, T. D. B., AND ASHLIE MARTINI, A., 2017, ASME APPL. MECH. REV., 69(6), P. 061101)
(2017) APPLIED MECHANICS REVIEWS, 69 (6), ART. NO. 065502, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85032938366&DOI=10.1115%2F1.4038188&PARTNERID=40&MD5=D88EA8D35BB0EEBA633B30F3EF162AAC](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032938366&doi=10.1115%2F1.4038188&partnerid=40&md5=d88ea8d35bb0eeba633b30f3ef162aac)

DOI: 10.1115/1.4038188
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M., HOFFMANN, N.
SUBCRITICAL BIFURCATION IN A SELF-EXCITED SINGLE-DEGREE-OF-FREEDOM SYSTEM WITH VELOCITY WEAKENING-STRENGTHENING FRICTION LAW: ANALYTICAL RESULTS AND COMPARISON WITH EXPERIMENTS
(2017) NONLINEAR DYNAMICS, 90 (3), PP. 2037-2046.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85029896859&DOI=10.1007%2FS11071-017-3779-4&PARTNERID=40&MD5=D3008AD32424E765EBC061490F316290](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029896859&doi=10.1007%2FS11071-017-3779-4&partnerid=40&md5=d3008ad32424e765ebc061490f316290)

DOI: 10.1007/S11071-017-3779-4
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., BERTO, F.
A SIMPLIFIED EXTENSION OF THE CRACK ANALOGUE MODEL FOR FRETTING FATIGUE WITH VARYING NORMAL LOAD
(2017) THEORETICAL AND APPLIED FRACTURE MECHANICS, 91, PP. 37-43.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85017111320&DOI=10.1016%2FJ.TAFMEC.2017.03.011&PARTNERID=40&MD5=5DD0B10B3603760B994D4B54B6D537FB](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017111320&doi=10.1016%2FJ.TAFMEC.2017.03.011&partnerid=40&md5=5DD0B10B3603760B994D4B54B6D537FB)

DOI: 10.1016/J.TAFMEC.2017.03.011
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., AFFERRANTE, L., CIAVARELLA, M.
A NOTE ON THE PULL-OFF FORCE FOR A PATTERN OF CONTACTS DISTRIBUTED OVER A
HALFSPACE

(2017) MECCANICA, 52 (11-12), PP. 2865-2871.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85014951097&DOI=10.1007%2FS11012-017-0650-0&PARTNERID=40&MD5=3FADB23E6AA2B625B4999BA636917373](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014951097&doi=10.1007%2FS11012-017-0650-0&partnerid=40&md5=3FADB23E6AA2B625B4999BA636917373)

DOI: 10.1007/S11012-017-0650-0
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., D'ANTUONO, P., DEMELIO, G.P.
GENERALIZED DEFINITION OF "CRACK-LIKE" NOTCHES TO FINITE LIFE AND SN CURVE
TRANSITION FROM "CRACK-LIKE" TO "BLUNT NOTCH" BEHAVIOR

(2017) ENGINEERING FRACTURE MECHANICS, 179, PP. 154-164.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85018791631&DOI=10.1016%2FJ.ENGFRACMECH.2017.04.048&PARTNERID=40&MD5=E6BA82BA763B13B71C8227F274A200F4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018791631&doi=10.1016%2FJ.ENGFRACMECH.2017.04.048&partnerid=40&md5=E6BA82BA763B13B71C8227F274A200F4)

DOI: 10.1016/J.ENGFRACMECH.2017.04.048
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., D'ANTUONO, P., DEMELIO, G.P.
A SIMPLE FINDING ON VARIABLE AMPLITUDE (GASSNER) FATIGUE SN CURVES OBTAINED
USING MINER'S RULE FOR UNNOTCHED OR NOTCHED SPECIMEN

(2017) ENGINEERING FRACTURE MECHANICS, 176, PP. 178-185.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85015622335&DOI=10.1016%2FJ.ENGFRACMECH.2017.03.005&PARTNERID=40&MD5=0B22569839A937DE0D60F4037AD99659](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015622335&doi=10.1016%2FJ.ENGFRACMECH.2017.03.005&partnerid=40&md5=0B22569839A937DE0D60F4037AD99659)

DOI: 10.1016/J.ENGFRACMECH.2017.03.005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
ON THE SIGNIFICANCE OF ASPERITY MODELS PREDICTIONS OF ROUGH CONTACT WITH
RESPECT TO RECENT ALTERNATIVE THEORIES

(2017) JOURNAL OF TRIBOLOGY, 139 (2), ART. NO. 021402, .

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84994013952&DOI=10.1115%2F1.4034245&PARTNERID=40&MD5=810F235615271DF2467871E960B8D123](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994013952&doi=10.1115%2F1.4034245&partnerid=40&md5=810F235615271DF2467871E960B8D123)

DOI: 10.1115/1.4034245
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
SOME OBSERVATIONS ON BAR SINAI, BRENER AND BOUCHBINDER (BSBB) MODEL FOR FRICTION
(2017) MECCANICA, 52 (4-5), PP. 1239-1246.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84975167065&DOI=10.1007%2FS11012-016-0463-6&PARTNERID=40&MD5=0236BCD7D389C5FD0CD56F152970C4CE](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975167065&doi=10.1007%2FS11012-016-0463-6&partnerid=40&md5=0236BCD7D389C5FD0CD56F152970C4CE)

DOI: 10.1007/S11012-016-0463-6
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., GROLET, A., SALLES, L., HOFFMANN, N., CIAVARELLA, M.
SNAKING BIFURCATIONS IN A SELF-EXCITED OSCILLATOR CHAIN WITH CYCLIC SYMMETRY
(2017) COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, 44, PP. 108-119.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84981332751&DOI=10.1016%2FJ.CNSNS.2016.08.004&PARTNERID=40&MD5=9CC2E2647373C47F067E2F330C544493](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981332751&doi=10.1016%2FJ.CNSNS.2016.08.004&partnerid=40&md5=9CC2E2647373C47F067E2F330C544493)

DOI: 10.1016/J.CNSNS.2016.08.004
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
A NOTE ON THE POSSIBILITY OF ROUGHNESS ENHANCEMENT OF ADHESION IN PERSSON'S THEORY
(2017) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 121, PP. 119-122.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85007507343&DOI=10.1016%2FJ.IJMECSCI.2016.12.020&PARTNERID=40&MD5=2D72178E5EB534091AC147AA8926DE57](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007507343&doi=10.1016%2FJ.IJMECSCI.2016.12.020&partnerid=40&md5=2D72178E5EB534091AC147AA8926DE57)

DOI: 10.1016/J.IJMECSCI.2016.12.020
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
A MAUGIS-DUGDALE COHESIVE SOLUTION FOR ADHESION OF A SURFACE WITH A DIMPLE
(2017) JOURNAL OF THE ROYAL SOCIETY INTERFACE, 14 (127), ART. NO. 20160996, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85015170694&DOI=10.1098%2FRSIF.2016.0996&PARTNERID=40&MD5=8C68FE3411089A8F2F7F34F047680F61](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015170694&doi=10.1098%2FRSIF.2016.0996&partnerid=40&md5=8C68FE3411089A8F2F7F34F047680F61)

DOI: 10.1098/RSIF.2016.0996
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.

ON PASTEWKA AND ROBBINS' CRITERION FOR MACROSCOPIC ADHESION OF ROUGH SURFACES

(2017) JOURNAL OF TRIBOLOGY, 139 (3), ART. NO. 031404, .

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029157048&doi=10.1115%2F1.4034530&partnerid=40&md5=3fb6befe04cd4138d72190ea85336e86)

[85029157048&DOI=10.1115%2F1.4034530&PARTNERID=40&MD5=3FB6BEFE04CD4138D72190EA85336E86](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029157048&doi=10.1115%2F1.4034530&partnerid=40&md5=3fb6befe04cd4138d72190ea85336e86)

DOI: 10.1115/1.4034530

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M.

ON THE USE OF DMT APPROXIMATIONS IN ADHESIVE CONTACTS, WITH REMARKS ON RANDOM ROUGH CONTACTS

(2017) TRIBOLOGY INTERNATIONAL, 114, PP. 445-449.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019036855&doi=10.1016%2FJ.TRIBOINT.2017.04.046&partnerid=40&md5=1ed46b97ffbf96e7eba0028472b1a12)

[85019036855&DOI=10.1016%2FJ.TRIBOINT.2017.04.046&PARTNERID=40&MD5=1ED46B97FFBFE96E7EBA0028472B1A12](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019036855&doi=10.1016%2FJ.TRIBOINT.2017.04.046&partnerid=40&md5=1ed46b97ffbf96e7eba0028472b1a12)

DOI: 10.1016/J.TRIBOINT.2017.04.046

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., PAPANGELO, A., AFFERRANTE, L.

ADHESION BETWEEN SELF-AFFINE ROUGH SURFACES: POSSIBLE LARGE EFFECTS IN SMALL DEVIATIONS FROM THE NOMINALLY GAUSSIAN CASE

(2017) TRIBOLOGY INTERNATIONAL, 109, PP. 435-440.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009786041&doi=10.1016%2FJ.TRIBOINT.2017.01.003&partnerid=40&md5=68aa5af66354d411fe03a09bab0cb569)

[85009786041&DOI=10.1016%2FJ.TRIBOINT.2017.01.003&PARTNERID=40&MD5=68AA5AF66354D411FE03A09BAB0CB569](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009786041&doi=10.1016%2FJ.TRIBOINT.2017.01.003&partnerid=40&md5=68aa5af66354d411fe03a09bab0cb569)

DOI: 10.1016/J.TRIBOINT.2017.01.003

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., GREENWOOD, J.A., BARBER, J.R.

EFFECT OF TABOR PARAMETER ON HYSTERESIS LOSSES DURING ADHESIVE CONTACT

(2017) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 98, PP. 236-244.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84993960828&doi=10.1016%2FJ.JMPS.2016.10.005&partnerid=40&md5=79fdb2d253122e01b75269ac88a91b9b)

[84993960828&DOI=10.1016%2FJ.JMPS.2016.10.005&PARTNERID=40&MD5=79FDB2D253122E01B75269AC88A91B9B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84993960828&doi=10.1016%2FJ.JMPS.2016.10.005&partnerid=40&md5=79fdb2d253122e01b75269ac88a91b9b)

DOI: 10.1016/J.JMPS.2016.10.005

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M.

ON A RECENT STICKINESS CRITERION USING A VERY SIMPLE GENERALIZATION OF DMT THEORY OF ADHESION

(2016) JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, 30 (24), PP. 2725-2735.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84974823855&DOI=10.1080%2F01694243.2016.1198445&PARTNERID=40&MD5=C6A603B0F1EE0B24490688CA1F18B5F5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974823855&doi=10.1080%2F01694243.2016.1198445&partnerid=40&md5=C6A603B0F1EE0B24490688CA1F18B5F5)

DOI: 10.1080/01694243.2016.1198445
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
ON ROUGHNESS-INDUCED ADHESION ENHANCEMENT
(2016) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 51 (7), PP. 473-481.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84988736236&DOI=10.1177%2F0309324716653003&PARTNERID=40&MD5=B353F04C604D56425AEEAA6AAFB77382](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988736236&doi=10.1177%2F0309324716653003&partnerid=40&md5=B353F04C604D56425AEEAA6AAFB77382)

DOI: 10.1177/0309324716653003
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
AN UPPER BOUND TO MULTISCALE ROUGHNESS-INDUCED ADHESION ENHANCEMENT
(2016) TRIBOLOGY INTERNATIONAL, 102, PP. 99-102.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84971325242&DOI=10.1016%2FJ.TRIBOINT.2016.05.017&PARTNERID=40&MD5=EFB73EED03E5295ECB5B711625A5231F](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971325242&doi=10.1016%2FJ.TRIBOINT.2016.05.017&partnerid=40&md5=EFB73EED03E5295ECB5B711625A5231F)

DOI: 10.1016/J.TRIBOINT.2016.05.017
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
ROUGH CONTACTS NEAR FULL CONTACT WITH A VERY SIMPLE ASPERITY MODEL
(2016) TRIBOLOGY INTERNATIONAL, 93, PP. 464-469.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84944769249&DOI=10.1016%2FJ.TRIBOINT.2015.08.046&PARTNERID=40&MD5=B29774C755BE334FF48D7C26FF1E18A7](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944769249&doi=10.1016%2FJ.TRIBOINT.2015.08.046&partnerid=40&md5=B29774C755BE334FF48D7C26FF1E18A7)

DOI: 10.1016/J.TRIBOINT.2015.08.046
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
ON THE EFFECT OF WEAR ON ASPERITY HEIGHT DISTRIBUTIONS, AND THE CORRESPONDING EFFECT IN THE MECHANICAL RESPONSE
(2016) TRIBOLOGY INTERNATIONAL, 101, PP. 164-167.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84964690927&DOI=10.1016%2FJ.TRIBOINT.2016.04.031&PARTNERID=40&MD5=A68AA95A5C153D09743917830F6AEF34](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964690927&doi=10.1016%2FJ.TRIBOINT.2016.04.031&partnerid=40&md5=A68AA95A5C153D09743917830F6AEF34)

DOI: 10.1016/J.TRIBOINT.2016.04.031
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
OPTIMAL NORMAL LOAD VARIATION IN WEDGE-SHAPED COULOMB DAMPERS
(2016) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 51 (4), PP. 279-285.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84973512786&DOI=10.1177%2F0309324715608965&PARTNERID=40&MD5=63B5F5393851D353B3C37259964684B2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973512786&doi=10.1177%2F0309324715608965&partnerid=40&md5=63B5F5393851D353B3C37259964684B2)

DOI: 10.1177/0309324715608965
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

GRIMALDI, G., PAPANGELO, A., CIAVARELLA, M.
A CATTANEO-MINDLIN PROBLEM FOR A RIGID PUNCH WITH TANGENTIAL LOAD APPLIED ABOVE THE INTERFACE LINE
(2016) PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C: JOURNAL OF MECHANICAL ENGINEERING SCIENCE, 230 (9), PP. 1410-1416.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84974604065&DOI=10.1177%2F0954406215625676&PARTNERID=40&MD5=504EA4115558DC8280944D4FAB5DBFEA](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974604065&doi=10.1177%2F0954406215625676&partnerid=40&md5=504EA4115558DC8280944D4FAB5DBFEA)

DOI: 10.1177/0954406215625676
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

DIMAKI, A.V., DMITRIEV, A.I., MENGA, N., PAPANGELO, A., CIAVARELLA, M., POPOV, V.L.
FAST HIGH-RESOLUTION SIMULATION OF THE GROSS SLIP WEAR OF AXIALLY SYMMETRIC CONTACTS
(2016) TRIBOLOGY TRANSACTIONS, 59 (1), PP. 189-194.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84959010282&DOI=10.1080%2F10402004.2015.1065529&PARTNERID=40&MD5=1F10A48A5EA5509DD22F8CCA36F33277](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959010282&doi=10.1080%2F10402004.2015.1065529&partnerid=40&md5=1F10A48A5EA5509DD22F8CCA36F33277)

DOI: 10.1080/10402004.2015.1065529
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., AFFERRANTE, L.
ADHESION OF RIGID ROUGH CONTACTS WITH BOUNDED DISTRIBUTION OF HEIGHTS
(2016) TRIBOLOGY INTERNATIONAL, 100, PP. 18-23.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-85027931699&DOI=10.1016%2FJ.TRIBOINT.2015.10.033&PARTNERID=40&MD5=74612ADD65E3CC73449C9482332F5B16](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027931699&doi=10.1016%2FJ.TRIBOINT.2015.10.033&partnerid=40&md5=74612ADD65E3CC73449C9482332F5B16)

DOI: 10.1016/J.TRIBOINT.2015.10.033
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
ADHESIVE ROUGH CONTACTS NEAR COMPLETE CONTACT
(2015) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 104, PP. 104-111.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84946556444&DOI=10.1016%2FJ.IJMECSCI.2015.10.005&PARTNERID=40&MD5=739ADA5E03D970F881755ACBE6E0B1BF](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84946556444&doi=10.1016%2FJ.IJMECSCI.2015.10.005&partnerid=40&md5=739ADA5E03D970F881755ACBE6E0B1BF)

DOI: 10.1016/J.IJMECSCI.2015.10.005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
CATTANEO-MINDLIN PLANE PROBLEM WITH GRIFFITH FRICTION
(2015) WEAR, 342-343, PP. 398-407.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84945935873&DOI=10.1016%2FJ.WEAR.2015.10.005&PARTNERID=40&MD5=F33EA756D8EDCBA14259CDD3BB10772E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945935873&doi=10.1016%2FJ.WEAR.2015.10.005&partnerid=40&md5=F33EA756D8EDCBA14259CDD3BB10772E)

DOI: 10.1016/J.WEAR.2015.10.005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
TRANSITION FROM STICK TO SLIP IN HERTZIAN CONTACT WITH "GRIFFITH" FRICTION: THE CATTANEO-MINDLIN PROBLEM REVISITED
(2015) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 84, PP. 313-324.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84939868297&DOI=10.1016%2FJ.JMPS.2015.08.002&PARTNERID=40&MD5=7B8B62741054C06F536D793D11C6DBBF](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939868297&doi=10.1016%2FJ.JMPS.2015.08.002&partnerid=40&md5=7B8B62741054C06F536D793D11C6DBBF)

DOI: 10.1016/J.JMPS.2015.08.002
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., DEMELIO, G.
ADHESIVE CONTACT OF THE WEIERSTRASS PROFILE
(2015) PROCEEDINGS OF THE ROYAL SOCIETY A: MATHEMATICAL, PHYSICAL AND ENGINEERING SCIENCES, 471 (2182), ART. NO. 20150248, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84946022722&DOI=10.1098%2FRSPA.2015.0248&PARTNERID=40&MD5=F4ED1188977AC8D41CF7F1F40A100AC2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84946022722&doi=10.1098%2FRSPA.2015.0248&partnerid=40&md5=F4ED1188977AC8D41CF7F1F40A100AC2)

DOI: 10.1098/RSPA.2015.0248
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M., BARBER, J.R.
FRACTURE MECHANICS IMPLICATIONS FOR APPARENT STATIC FRICTION COEFFICIENT IN CONTACT PROBLEMS INVOLVING SLIP-WEAKENING LAWS
(2015) PROCEEDINGS OF THE ROYAL SOCIETY A: MATHEMATICAL, PHYSICAL AND ENGINEERING SCIENCES, 471 (2180), ART. NO. 20150271, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84939824610&DOI=10.1098%2FRSPA.2015.0271&PARTNERID=40&MD5=2C78A283A75FA8EC6D8D2FC825E914D6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939824610&doi=10.1098%2FRSPA.2015.0271&partnerid=40&md5=2C78A283A75FA8EC6D8D2FC825E914D6)

DOI: 10.1098/RSPA.2015.0271
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

MENGA, N., CIAVARELLA, M.
A WINKLER SOLUTION FOR THE AXISYMMETRIC HERTZIAN CONTACT PROBLEM WITH WEAR
AND FINITE ELEMENT METHOD COMPARISON
(2015) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 50 (3), PP. 156-162.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84925018762&DOI=10.1177%2F0309324714567489&PARTNERID=40&MD5=2A5D744898F57007590A98ECDE6BD933](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925018762&doi=10.1177%2F0309324714567489&partnerid=40&md5=2A5D744898F57007590A98ECDE6BD933)

DOI: 10.1177/0309324714567489
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.
ON THE LIMITS OF QUASI-STATIC ANALYSIS FOR A SIMPLE COULOMB FRICTIONAL
OSCILLATOR IN RESPONSE TO HARMONIC LOADS
(2015) JOURNAL OF SOUND AND VIBRATION, 339, PP. 280-289.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84920044590&DOI=10.1016%2FJ.JSV.2014.11.028&PARTNERID=40&MD5=C0904ABA0BE9BB35CDE896756D095425](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920044590&doi=10.1016%2FJ.JSV.2014.11.028&partnerid=40&md5=C0904ABA0BE9BB35CDE896756D095425)

DOI: 10.1016/J.JSV.2014.11.028
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
ON THE ROCKING AND WALKING FLAT PUNCH: EFFECT OF ELASTIC DISSIMILARITY
(2015) TRIBOLOGY INTERNATIONAL, 83, PP. 130-138.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84918536160&DOI=10.1016%2FJ.TRIBOINT.2014.11.012&PARTNERID=40&MD5=AAEEFCD4F5176FD52F4DDEAC89DA022D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84918536160&doi=10.1016%2FJ.TRIBOINT.2014.11.012&partnerid=40&md5=AAEEFCD4F5176FD52F4DDEAC89DA022D)

DOI: 10.1016/J.TRIBOINT.2014.11.012
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MENGA, N.
A NOTE ON WEAR OF ELASTIC SLIDING PARTS WITH VARYING CONTACT AREA
(2015) JOURNAL OF MECHANICS OF MATERIALS AND STRUCTURES, 10 (3), PP. 255-264.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84945942758&DOI=10.2140%2FJOMMS.2015.10.255&PARTNERID=40&MD5=C6841207BC7903CFD4DA9AEC5B5EE26E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945942758&doi=10.2140%2FJOMMS.2015.10.255&partnerid=40&md5=C6841207BC7903CFD4DA9AEC5B5EE26E)

DOI: 10.2140/JOMMS.2015.10.255
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAPANGELO, A., CIAVARELLA, M.

EFFECT OF NORMAL LOAD VARIATION ON THE FRICTIONAL BEHAVIOR OF A SIMPLE COULOMB FRICTIONAL OSCILLATOR

(2015) JOURNAL OF SOUND AND VIBRATION, 348, PP. 282-293.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84929023356&DOI=10.1016%2FJ.JSV.2015.03.026&PARTNERID=40&MD5=ED6844A6EBA45AAF37C7D94BD38CE774](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929023356&doi=10.1016%2FJ.JSV.2015.03.026&partnerid=40&md5=ED6844A6EBA45AAF37C7D94BD38CE774)

DOI: 10.1016/J.JSV.2015.03.026

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

BARBER, J.R., CIAVARELLA, M.

JKR SOLUTION FOR AN ANISOTROPIC HALF SPACE

(2014) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 64 (1), PP. 367-376.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84893767477&DOI=10.1016%2FJ.JMPS.2013.12.002&PARTNERID=40&MD5=6BE13D5B7C0864CF09B7D3F6E4992696](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893767477&doi=10.1016%2FJ.JMPS.2013.12.002&partnerid=40&md5=6BE13D5B7C0864CF09B7D3F6E4992696)

DOI: 10.1016/J.JMPS.2013.12.002

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M.

FRICTIONAL ENERGY DISSIPATION IN HERTZIAN CONTACT UNDER BIAXIAL TANGENTIAL HARMONICALLY VARYING LOADS

(2014) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 49 (1), PP. 27-32.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84899428080&DOI=10.1177%2F0309324713497010&PARTNERID=40&MD5=8201D37DF905E5BAD46C2865BAFCACB0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84899428080&doi=10.1177%2F0309324713497010&partnerid=40&md5=8201D37DF905E5BAD46C2865BAFCACB0)

DOI: 10.1177/0309324713497010

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

PAPANGELO, A., STINGL, B., HOFFMANN, N.P., CIAVARELLA, M.

A SIMPLE MODEL FOR FRICTION DETACHMENT AT AN INTERFACE OF FINITE SIZE MIMICKING FINEBERG'S EXPERIMENTS ON UNEVEN LOADING

(2014) PHYSICAL MESOMECHANICS, 17 (4), PP. 311-320.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84911965963&DOI=10.1134%2FS1029959914040080&PARTNERID=40&MD5=507362A49DED6244BDFC1BB86E10ED9C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84911965963&doi=10.1134%2FS1029959914040080&partnerid=40&md5=507362A49DED6244BDFC1BB86E10ED9C)

DOI: 10.1134/S1029959914040080

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

KRUSE, S., STINGL, B., HIEKE, J., PAPANGELO, A., TIEDEMANN, M., HOFFMANN, N., CIAVARELLA, M.

THE INFLUENCE OF LOADING CONDITIONS ON THE STATIC COEFFICIENT OF FRICTION: A STUDY ON BRAKE CREEP GROAN

(2014) CONFERENCE PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL MECHANICS SERIES, 7, PP. 149-160.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84988735395&DOI=10.1007%2F978-3-319-04753-9_15&PARTNERID=40&MD5=B64454425AD2E42D788C8B883CD72A60](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988735395&doi=10.1007%2F978-3-319-04753-9_15&partnerid=40&md5=B64454425AD2E42D788C8B883CD72A60)

DOI: 10.1007/978-3-319-04753-9_15
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

FAN, N., MORLOCK, M.M., BISHOP, N.E., HUBER, G., HOFFMANN, N., CIAVARELLA, M., CHEN, G.X., HOTHAN, A., WITT, F.
THE INFLUENCE OF STEM DESIGN ON CRITICAL SQUEAKING FRICTION WITH CERAMIC BEARINGS
(2013) JOURNAL OF ORTHOPAEDIC RESEARCH, 31 (10), PP. 1627-1632.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84882924729&DOI=10.1002%2FJOR.22413&PARTNERID=40&MD5=AA1C668C21D6AD1954D45BE083EE8372](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84882924729&doi=10.1002%2FJOR.22413&partnerid=40&md5=AA1C668C21D6AD1954D45BE083EE8372)

DOI: 10.1002/JOR.22413
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

STINGL, B., CIAVARELLA, M., HOFFMANN, N.
FRICTIONAL DISSIPATION IN ELASTICALLY DISSIMILAR OSCILLATING HERTZIAN CONTACTS
(2013) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 72, PP. 55-62.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84878596025&DOI=10.1016%2FJ.IJMECSCI.2013.03.012&PARTNERID=40&MD5=7AA7A40D41C03F74A35F0F2CC2E33AEE](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84878596025&doi=10.1016%2FJ.IJMECSCI.2013.03.012&partnerid=40&md5=7AA7A40D41C03F74A35F0F2CC2E33AEE)

DOI: 10.1016/J.IJMECSCI.2013.03.012
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
A SIMPLE APPROXIMATE EXPRESSION FOR FINITE LIFE FATIGUE BEHAVIOUR IN THE PRESENCE OF 'CRACK-LIKE' OR 'BLUNT' NOTCHES
(2012) FATIGUE AND FRACTURE OF ENGINEERING MATERIALS AND STRUCTURES, 35 (3), PP. 247-256.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84857789133&DOI=10.1111%2FJ.1460-2695.2011.01612.X&PARTNERID=40&MD5=C4336616C828C9D315794CBDD6EE02FE](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857789133&doi=10.1111%2FJ.1460-2695.2011.01612.X&partnerid=40&md5=C4336616C828C9D315794CBDD6EE02FE)

DOI: 10.1111/J.1460-2695.2011.01612.X
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PUTIGNANO, C., CIAVARELLA, M., BARBER, J.R.
FRICTIONAL ENERGY DISSIPATION IN CONTACT OF NOMINALLY FLAT ROUGH SURFACES UNDER HARMONICALLY VARYING LOADS
(2011) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 59 (12), PP. 2442-2454.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-80054858903&DOI=10.1016%2FJ.JMPS.2011.09.005&PARTNERID=40&MD5=AC26FE1F1ED39D81AC75DE84C2E6821B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-80054858903&doi=10.1016%2FJ.JMPS.2011.09.005&partnerid=40&md5=AC26FE1F1ED39D81AC75DE84C2E6821B)

DOI: 10.1016/J.JMPS.2011.09.005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., SACKFIELD, A.
ROLLING CYLINDER ON AN ELASTIC HALF-PLANE WITH HARMONIC OSCILLATIONS IN
NORMAL FORCE AND ROTATIONAL SPEED. PART I: SOLUTION OF THE PARTIAL SLIP CONTACT
PROBLEM
(2011) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 53 (11), PP. 989-999.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
80052962206&DOI=10.1016%2FJ.IJMECSCI.2011.08.004&PARTNERID=40&MD5=061C11F4626A059B05
F93B9BF8A20DD2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-80052962206&doi=10.1016%2Fj.ijmecsci.2011.08.004&partnerid=40&md5=061c11f4626a059b05f93b9bf8a20dd2)

DOI: 10.1016/J.IJMECSCI.2011.08.004
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., DELLORCO, M., DEMELIO, G.
ROLLING CYLINDER ON AN ELASTIC HALF-PLANE WITH HARMONIC OSCILLATIONS IN
NORMAL FORCE AND ROTATIONAL SPEED. PART II: ENERGY DISSIPATION RECEPTANCES AND
EXAMPLE CALCULATIONS OF CORRUGATION IN THE SHORT-PITCH RANGE
(2011) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 53 (11), PP. 1000-1007.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
80052970242&DOI=10.1016%2FJ.IJMECSCI.2011.08.005&PARTNERID=40&MD5=E9D466880E6FADB17
40F3DA75B73CE6C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-80052970242&doi=10.1016%2Fj.ijmecsci.2011.08.005&partnerid=40&md5=e9d466880e6fadb1740f3da75b73ce6c)

DOI: 10.1016/J.IJMECSCI.2011.08.005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

GREENWOOD, J.A., PUTIGNANO, C., CIAVARELLA, M.
A GREENWOOD & WILLIAMSON THEORY FOR LINE CONTACT
(2011) WEAR, 270 (3-4), PP. 332-334.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
78650678716&DOI=10.1016%2FJ.WEAR.2010.11.002&PARTNERID=40&MD5=9C46836649C8689CB6413
6AB5F485A73](https://www.scopus.com/inward/record.uri?eid=2-s2.0-78650678716&doi=10.1016%2Fj.wear.2010.11.002&partnerid=40&md5=9c46836649c8689cb64136ab5f485a73)

DOI: 10.1016/J.WEAR.2010.11.002
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MONNO, F.
A COMPARISON OF MULTIAXIAL FATIGUE CRITERIA AS APPLIED TO ROLLING CONTACT
FATIGUE
(2010) TRIBOLOGY INTERNATIONAL, 43 (11), PP. 2139-2144.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-
77956186203&DOI=10.1016%2FJ.TRIBOINT.2010.06.003&PARTNERID=40&MD5=2298B2202CD1E042E
175EF17240BCF56](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77956186203&doi=10.1016%2Fj.triboint.2010.06.003&partnerid=40&md5=2298b2202cd1e042e175ef17240bcf56)

DOI: 10.1016/J.TRIBOINT.2010.06.003
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PAGGI, M., CIAVARELLA, M.
THE COEFFICIENT OF PROPORTIONALITY K BETWEEN REAL CONTACT AREA AND LOAD, WITH
NEW ASPERITY MODELS
(2010) WEAR, 268 (7-8), PP. 1020-1029.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-77049108649&DOI=10.1016%2FJ.WEAR.2009.12.038&PARTNERID=40&MD5=EAFD563A886D38AB867DF38AE8DFD909](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77049108649&doi=10.1016%2FJ.WEAR.2009.12.038&partnerid=40&md5=EAFD563A886D38AB867DF38AE8DFD909)

DOI: 10.1016/J.WEAR.2009.12.038
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
SHORT PITCH CORRUGATION OF RAILWAY TRACKS WITH WOODEN OR CONCRETE SLEEPERS:
AN ENIGMA SOLVED?
(2010) TRIBOLOGY INTERNATIONAL, 43 (3), PP. 610-622.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-73149085058&DOI=10.1016%2FJ.TRIBOINT.2009.09.010&PARTNERID=40&MD5=D7D4192AB9177543B4FDD1807386880E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-73149085058&doi=10.1016%2FJ.TRIBOINT.2009.09.010&partnerid=40&md5=D7D4192AB9177543B4FDD1807386880E)

DOI: 10.1016/J.TRIBOINT.2009.09.010
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAGGI, M., CARPINTERI, A.
A GENERALIZED DIMENSIONAL ANALYSIS APPROACH TO FATIGUE CRACK GROWTH
(2009) 12TH INTERNATIONAL CONFERENCE ON FRACTURE 2009, ICF-12, 8, PP. 6337-6346.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84869848511&PARTNERID=40&MD5=9D13776494D8E0D7293ECB4783550652](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84869848511&partnerid=40&md5=9D13776494D8E0D7293ECB4783550652)

DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

HOFFMANN, N.P., CIAVARELLA, M., STOLZ, U., WEIß, C.
THE EFFECT OF LONG-WAVELENGTH STIFFNESS VARIATION ON WEAR PATTERN GENERATION
(2009) JOURNAL OF SOUND AND VIBRATION, 322 (4-5), PP. 785-797.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-63549089261&DOI=10.1016%2FJ.JSV.2008.11.027&PARTNERID=40&MD5=FD89E26CE800C7D2C6F2DB801D917C2A](https://www.scopus.com/inward/record.uri?eid=2-s2.0-63549089261&doi=10.1016%2FJ.JSV.2008.11.027&partnerid=40&md5=FD89E26CE800C7D2C6F2DB801D917C2A)

DOI: 10.1016/J.JSV.2008.11.027
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
SHORT-PITCH RAIL CORRUGATION: A POSSIBLE RESONANCE-FREE REGIME AS A STEP
FORWARD TO EXPLAIN THE "ENIGMA"?
(2009) WEAR, 266 (9-10), PP. 934-944.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-73149083340&DOI=10.1016%2FJ.WEAR.2008.12.003&PARTNERID=40&MD5=177B42DEE88F79C7F70F288B3164D16E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-73149083340&doi=10.1016%2FJ.WEAR.2008.12.003&partnerid=40&md5=177B42DEE88F79C7F70F288B3164D16E)

DOI: 10.1016/J.WEAR.2008.12.003
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
CORRUGATION MODELS AND THE ROARING RAILS ENIGMA: A SIMPLE ANALYTICAL CONTACT MECHANICS MODEL BASED ON A PERTURBATION OF CARTER'S SOLUTION
(2009) JOURNAL OF MECHANICS OF MATERIALS AND STRUCTURES, 4 (2), PP. 191-209.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-70350378132&DOI=10.2140%2FJOMMS.2009.4.191&PARTNERID=40&MD5=2FE1C13BEB6DB39B2A6D72C9990E1F11](https://www.scopus.com/inward/record.uri?eid=2-s2.0-70350378132&doi=10.2140%2FJOMMS.2009.4.191&partnerid=40&md5=2FE1C13BEB6DB39B2A6D72C9990E1F11)

DOI: 10.2140/JOMMS.2009.4.191
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., PAGGI, M., CARPINTERI, A.
ONE, NO ONE, AND ONE HUNDRED THOUSAND CRACK PROPAGATION LAWS: A GENERALIZED BARENBLATT AND BOTVINA DIMENSIONAL ANALYSIS APPROACH TO FATIGUE CRACK GROWTH
(2008) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 56 (12), PP. 3416-3432.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-55749110899&DOI=10.1016%2FJ.JMPS.2008.09.002&PARTNERID=40&MD5=338624AB2FEB2BEAC6652DEF71977DFC](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55749110899&doi=10.1016%2FJ.JMPS.2008.09.002&partnerid=40&md5=338624AB2FEB2BEAC6652DEF71977DFC)

DOI: 10.1016/J.JMPS.2008.09.002
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., GREENWOOD, J.A., PAGGI, M.
INCLUSION OF "INTERACTION" IN THE GREENWOOD AND WILLIAMSON CONTACT THEORY
(2008) WEAR, 265 (5-6), PP. 729-734.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-43549107244&DOI=10.1016%2FJ.WEAR.2008.01.019&PARTNERID=40&MD5=3809C42EB735BB255B6E0E86FEF0192A](https://www.scopus.com/inward/record.uri?eid=2-s2.0-43549107244&doi=10.1016%2FJ.WEAR.2008.01.019&partnerid=40&md5=3809C42EB735BB255B6E0E86FEF0192A)

DOI: 10.1016/J.WEAR.2008.01.019
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
THERMO-ELASTIC DYNAMIC INSTABILITY (TEDI) - A REVIEW OF RECENT RESULTS
(2008) JOURNAL OF ENGINEERING MATHEMATICS, 61 (2-4), PP. 285-300.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-47349084585&DOI=10.1007%2FS10665-007-9184-0&PARTNERID=40&MD5=6D442BD5327DEC9D1924D029B78572A8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-47349084585&doi=10.1007%2FS10665-007-9184-0&partnerid=40&md5=6D442BD5327DEC9D1924D029B78572A8)

DOI: 10.1007/S10665-007-9184-0
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

BARBER, J.R., KLARBRING, A., CIAVARELLA, M.
SHAKEDOWN IN FRICTIONAL CONTACT PROBLEMS
(2008) 2007 PROCEEDINGS OF THE ASME/STLE INTERNATIONAL JOINT TRIBOLOGY
CONFERENCE, IJTC 2007, PART A, PP. 517-519.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-43349106624&DOI=10.1115%2FIJTC2007-44040&PARTNERID=40&MD5=642FD482CAD7060FF4F4F188DF363462](https://www.scopus.com/inward/record.uri?eid=2-s2.0-43349106624&doi=10.1115%2FIJTC2007-44040&partnerid=40&md5=642fd482cad7060ff4f4f188df363462)

DOI: 10.1115/IJTC2007-44040
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M., BARBER, J.
INFLUENCE OF LONGITUDINAL CREEPAGE AND WHEEL INERTIA ON SHORT-PITCH
CORRUGATION: A RESONANCE-FREE MECHANISM TO EXPLAIN THE ROARING RAIL
PHENOMENON
(2008) PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART J: JOURNAL OF
ENGINEERING TRIBOLOGY, 222 (3), PP. 171-181.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-44949106358&DOI=10.1243%2F13506501JET373&PARTNERID=40&MD5=1769BE8E4DAA39DD3031EB53AF5EB843](https://www.scopus.com/inward/record.uri?eid=2-s2.0-44949106358&doi=10.1243%2F13506501JET373&partnerid=40&md5=1769BE8E4DAA39DD3031EB53AF5EB843)

DOI: 10.1243/13506501JET373
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M., DIBELLO, S., DEMELIO, G.
CONDUCTANCE OF ROUGH RANDOM PROFILES
(2008) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 45 (3-4), PP. 879-893.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-36049030704&DOI=10.1016%2FJ.IJSOLSTR.2007.09.009&PARTNERID=40&MD5=490AF9C3D79125DFA9A341704A3AC155](https://www.scopus.com/inward/record.uri?eid=2-s2.0-36049030704&doi=10.1016%2FJ.IJSOLSTR.2007.09.009&partnerid=40&md5=490AF9C3D79125DFA9A341704A3AC155)

DOI: 10.1016/J.IJSOLSTR.2007.09.009
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

BARBER, J.R., KLARBRING, A., CIAVARELLA, M.
SHAKEDOWN IN FRICTIONAL CONTACT PROBLEMS FOR THE CONTINUUM
(2008) COMPTES RENDUS - MECANIQUE, 336 (1-2), PP. 34-41.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-38949101581&DOI=10.1016%2FJ.CRME.2007.10.013&PARTNERID=40&MD5=B83C4D5D63233A21100645D3F88037C3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-38949101581&doi=10.1016%2FJ.CRME.2007.10.013&partnerid=40&md5=B83C4D5D63233A21100645D3F88037C3)

DOI: 10.1016/J.CRME.2007.10.013
DOCUMENT TYPE: SHORT SURVEY
SOURCE: SCOPUS

BARBER, J.R., CIAVARELLA, M., AFFERRANTE, L., SACKFIELD, A.
EFFECT OF SMALL HARMONIC OSCILLATIONS DURING THE STEADY ROLLING OF A CYLINDER
ON A PLANE
(2008) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 50 (9), PP. 1344-1353.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-55349111794&DOI=10.1016%2FJ.IJMECSCI.2008.07.011&PARTNERID=40&MD5=BFEB3EE0C895ED5F7797F00823F6AE1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55349111794&doi=10.1016%2FJ.IJMECSCI.2008.07.011&partnerid=40&md5=BFEB3EE0C895ED5F7797F00823F6AE1)

DOI: 10.1016/J.IJMECSCI.2008.07.011
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

KLARBRING, A., CIAVARELLA, M., BARBER, J.R.
SHAKEDOWN IN ELASTIC CONTACT PROBLEMS WITH COULOMB FRICTION
(2007) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 44 (25-26), PP. 8355-8365.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-35448974955&DOI=10.1016%2FJ.IJSOLSTR.2007.06.013&PARTNERID=40&MD5=FC97301D839AB3B29FA3FE865E760876](https://www.scopus.com/inward/record.uri?eid=2-s2.0-35448974955&doi=10.1016%2FJ.IJSOLSTR.2007.06.013&partnerid=40&md5=FC97301D839AB3B29FA3FE865E760876)

DOI: 10.1016/J.IJSOLSTR.2007.06.013
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

YAO, H., CIAVARELLA, M., GAO, H.
ADHESION MAPS OF SPHERES CORRECTED FOR STRENGTH LIMIT
(2007) JOURNAL OF COLLOID AND INTERFACE SCIENCE, 315 (2), PP. 786-790.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-34548857351&DOI=10.1016%2FJ.JCIS.2007.07.021&PARTNERID=40&MD5=40763857FA67FC299ECFBA04A6BFA064](https://www.scopus.com/inward/record.uri?eid=2-s2.0-34548857351&doi=10.1016%2FJ.JCIS.2007.07.021&partnerid=40&md5=40763857FA67FC299ECFBA04A6BFA064)

DOI: 10.1016/J.JCIS.2007.07.021
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., STROZZI, A., BALDINI, A., GIACOPINI, M.
NORMALIZATION OF LOAD AND CLEARANCE EFFECTS IN BALL-IN-SOCKET-LIKE REPLACEMENTS
(2007) PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART H: JOURNAL OF ENGINEERING IN MEDICINE, 221 (6), PP. 601-611.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-35148889362&DOI=10.1243%2F09544119JEIM200&PARTNERID=40&MD5=813F52D114803F191AE2C53C5C88B20B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-35148889362&doi=10.1243%2F09544119JEIM200&partnerid=40&md5=813F52D114803F191AE2C53C5C88B20B)

DOI: 10.1243/09544119JEIM200
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
THERMOELASTIC DYNAMIC INSTABILITY (TEDI) IN FRICTIONAL SLIDING OF A HALF-SPACE AGAINST A RIGID NON-CONDUCTING WALL
(2007) JOURNAL OF APPLIED MECHANICS, TRANSACTIONS ASME, 74 (5), PP. 875-884.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-35348843407&DOI=10.1115%2F1.2712232&PARTNERID=40&MD5=4602A87C0D4A7D27C7B6A85C2F0F9BE2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-35348843407&doi=10.1115%2F1.2712232&partnerid=40&md5=4602A87C0D4A7D27C7B6A85C2F0F9BE2)

DOI: 10.1115/1.2712232

DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
THERMO-ELASTIC DYNAMIC INSTABILITY (TEDI) IN FRICTIONAL SLIDING OF TWO ELASTIC HALF-SPACES
(2007) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 55 (4), PP. 744-764.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-34047243857&DOI=10.1016%2FJ.JMPS.2006.10.004&PARTNERID=40&MD5=147B97482CC218873EB014C8FF0A5BB8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-34047243857&doi=10.1016%2Fj.jmps.2006.10.004&partnerid=40&md5=147b97482cc218873eb014c8ff0a5bb8)

DOI: 10.1016/J.JMPS.2006.10.004
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
A NOTE ON THERMOELASTODYNAMIC INSTABILITY (TEDI) FOR A 1D ELASTIC LAYER: FORCE CONTROL
(2007) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 44 (5), PP. 1380-1390.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33846035478&DOI=10.1016%2FJ.IJSOLSTR.2006.06.030&PARTNERID=40&MD5=C34247DF8953A9DB3135EDDA7728B52C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33846035478&doi=10.1016%2Fj.ijsolstr.2006.06.030&partnerid=40&md5=C34247DF8953A9DB3135EDDA7728B52C)

DOI: 10.1016/J.IJSOLSTR.2006.06.030
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DELFINE, V., DEMELIO, G.
A "RE-VITALIZED" GREENWOOD AND WILLIAMSON MODEL OF ELASTIC CONTACT BETWEEN FRACTAL SURFACES
(2006) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 54 (12), PP. 2569-2591.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33749591905&DOI=10.1016%2FJ.JMPS.2006.05.006&PARTNERID=40&MD5=FD934E833F1298ADD7E855DB75CA109B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33749591905&doi=10.1016%2Fj.jmps.2006.05.006&partnerid=40&md5=FD934E833F1298ADD7E855DB75CA109B)

DOI: 10.1016/J.JMPS.2006.05.006
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MUROLO, C., DEMELIO, G.
ON THE ELASTIC CONTACT OF ROUGH SURFACES: NUMERICAL EXPERIMENTS AND COMPARISONS WITH RECENT THEORIES
(2006) WEAR, 261 (10), PP. 1102-1113.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33750510661&DOI=10.1016%2FJ.WEAR.2006.02.001&PARTNERID=40&MD5=B62E93F7F4C29556E97B3C451AE6E352](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33750510661&doi=10.1016%2Fj.wear.2006.02.001&partnerid=40&md5=B62E93F7F4C29556E97B3C451AE6E352)

DOI: 10.1016/J.WEAR.2006.02.001
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.

"FRICTIONLESS" AND "FRICTIONAL" THERMOELASTIC DYNAMIC INSTABILITY (TEDI) OF SLIDING CONTACTS

(2006) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 54 (11), PP. 2330-2353.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33749665117&DOI=10.1016%2FJ.JMPS.2006.06.008&PARTNERID=40&MD5=2D4F3899E625C809337FB51E523F7D0D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33749665117&doi=10.1016%2FJ.JMPS.2006.06.008&partnerid=40&md5=2D4F3899E625C809337FB51E523F7D0D)

DOI: 10.1016/J.JMPS.2006.06.008

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.

TEDI (THERMOELASTO-DYNAMIC INSTABILITY): A NEW MECHANISM FOR SQUEAL & TEI

(2006) LECTURE NOTES IN APPLIED AND COMPUTATIONAL MECHANICS, 2006 (27), PP. 231-241.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33749036888&DOI=10.1007%2F3-540-31761-9_26&PARTNERID=40&MD5=3981F49F12F21391D7FF25C77609263C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33749036888&doi=10.1007%2F3-540-31761-9_26&partnerid=40&md5=3981F49F12F21391D7FF25C77609263C)

DOI: 10.1007/3-540-31761-9_26

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M.

SOME OBSERVATIONS ON THE CLNA MODEL IN FRETTING FATIGUE

(2006) TRIBOLOGY INTERNATIONAL, 39 (10), PP. 1142-1148.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33746652178&DOI=10.1016%2FJ.TRIBOINT.2006.02.032&PARTNERID=40&MD5=A2A0B9BF2B557413796C10BE11363940](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33746652178&doi=10.1016%2FJ.TRIBOINT.2006.02.032&partnerid=40&md5=A2A0B9BF2B557413796C10BE11363940)

DOI: 10.1016/J.TRIBOINT.2006.02.032

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., MONNO, F.

ON THE POSSIBLE GENERALIZATIONS OF THE KITAGAWA-TAKAHASHI DIAGRAM AND OF THE EL HADDAD EQUATION TO FINITE LIFE

(2006) INTERNATIONAL JOURNAL OF FATIGUE, 28 (12), PP. 1826-1837.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33748416600&DOI=10.1016%2FJ.IJFATIGUE.2005.12.001&PARTNERID=40&MD5=A43ED2388E830E03B5DC7B5109601BE2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33748416600&doi=10.1016%2FJ.IJFATIGUE.2005.12.001&partnerid=40&md5=A43ED2388E830E03B5DC7B5109601BE2)

DOI: 10.1016/J.IJFATIGUE.2005.12.001

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., DELFINE, V., DEMELIO, V.

A NEW 2D ASPERITY MODEL WITH INTERACTION FOR STUDYING THE CONTACT OF MULTISCALE ROUGH RANDOM PROFILES

(2006) WEAR, 261 (5-6), PP. 556-567.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-3374777788&DOI=10.1016%2FJ.WEAR.2006.01.028&PARTNERID=40&MD5=31AAD0D79E59E1286C177BF88E102F00](https://www.scopus.com/inward/record.uri?eid=2-s2.0-3374777788&doi=10.1016%2FJ.WEAR.2006.01.028&partnerid=40&md5=31AAD0D79E59E1286C177BF88E102F00)

DOI: 10.1016/J.WEAR.2006.01.028
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

ADAMS, G.G., BARBER, J.R., CIAVARELLA, M., RICE, J.R.
CLOSURE TO "DISCUSSION OF 'A PARADOX IN SLIDING CONTACT PROBLEMS WITH FRICTION' "
(2006, ASME J. APPL. MECH., 73, PP. 884-886)
(2006) JOURNAL OF APPLIED MECHANICS, TRANSACTIONS ASME, 73 (5), P. 887.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33748415066&DOI=10.1115%2F1.2202856&PARTNERID=40&MD5=AD3696B387CB25B5B7DA33F92647BFFA](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33748415066&doi=10.1115%2F1.2202856&partnerid=40&md5=AD3696B387CB25B5B7DA33F92647BFFA)

DOI: 10.1115/1.2202856
DOCUMENT TYPE: NOTE
SOURCE: SCOPUS

CIAVARELLA, M., BALDINI, A., BARBER, J.R., STROZZI, A.
REDUCED DEPENDENCE ON LOADING PARAMETERS IN ALMOST CONFORMING CONTACTS
(2006) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 48 (9), PP. 917-925.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33745052646&DOI=10.1016%2FJ.IJMECSCI.2006.03.016&PARTNERID=40&MD5=80738ABE91330FE563DFA65E46CBDFBB](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33745052646&doi=10.1016%2FJ.IJMECSCI.2006.03.016&partnerid=40&md5=80738ABE91330FE563DFA65E46CBDFBB)

DOI: 10.1016/J.IJMECSCI.2006.03.016
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., VALENZA, E.
IS WEIBULL'S MODULUS REALLY A MATERIAL CONSTANT? EXAMPLE CASE WITH
INTERACTING COLLINEAR CRACKS
(2006) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 43 (17), PP. 5147-5157.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33745948902&DOI=10.1016%2FJ.IJSOLSTR.2005.08.002&PARTNERID=40&MD5=BBD9424433D2A9BD62A0A15FA25693EF](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33745948902&doi=10.1016%2FJ.IJSOLSTR.2005.08.002&partnerid=40&md5=BBD9424433D2A9BD62A0A15FA25693EF)

DOI: 10.1016/J.IJSOLSTR.2005.08.002
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MONNO, F., DEMELIO, G.
ON THE DANG VAN FATIGUE LIMIT IN ROLLING CONTACT FATIGUE
(2006) INTERNATIONAL JOURNAL OF FATIGUE, 28 (8), PP. 852-863.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33646536811&DOI=10.1016%2FJ.IJFATIGUE.2005.11.002&PARTNERID=40&MD5=CC56A5A0552F365DBC4147CE8D2EF062](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33646536811&doi=10.1016%2FJ.IJFATIGUE.2005.11.002&partnerid=40&md5=CC56A5A0552F365DBC4147CE8D2EF062)

DOI: 10.1016/J.IJFATIGUE.2005.11.002
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PONTER, A.R.S., CHEN, H.F., CIAVARELLA, M., SPECCHIA, G.
SHAKEDOWN ANALYSES FOR ROLLING AND SLIDING CONTACT PROBLEMS

(2006) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 43 (14-15), PP. 4201-4219.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33744801673&DOI=10.1016%2FJ.IJSOLSTR.2005.05.046&PARTNERID=40&MD5=2BFC294A09A7E2C4D48CFCBBA42583A2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33744801673&doi=10.1016%2FJ.IJSOLSTR.2005.05.046&partnerid=40&md5=2BFC294A09A7E2C4D48CFCBBA42583A2)

DOI: 10.1016/J.IJSOLSTR.2005.05.046
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

PUGNO, N., CIAVARELLA, M., CORNETTI, P., CARPINTERI, A.
A GENERALIZED PARIS' LAW FOR FATIGUE CRACK GROWTH
(2006) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 54 (7), PP. 1333-1349.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33646479019&DOI=10.1016%2FJ.JMPS.2006.01.007&PARTNERID=40&MD5=26E37296F026AEC738654A07D7C8F8CF](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33646479019&doi=10.1016%2FJ.JMPS.2006.01.007&partnerid=40&md5=26E37296F026AEC738654A07D7C8F8CF)

DOI: 10.1016/J.JMPS.2006.01.007
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., DEMELIO, G.
ON THE STRESS CONCENTRATION AROUND A HOLE IN A HALF-PLANE SUBJECT TO MOVING CONTACT LOADS
(2006) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 43 (13), PP. 3895-3904.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33646406825&DOI=10.1016%2FJ.IJSOLSTR.2005.05.003&PARTNERID=40&MD5=0521EECF6A65F1EAF638EDFE1FDC0489E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33646406825&doi=10.1016%2FJ.IJSOLSTR.2005.05.003&partnerid=40&md5=0521EECF6A65F1EAF638EDFE1FDC0489E)

DOI: 10.1016/J.IJSOLSTR.2005.05.003
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., LEOCI, F.
AN ASSESSMENT OF THE GREENWOOD-WILLIAMSON AND OTHER ASPERITIES MODELS WITH, SPECIAL REFERENCE TO ELECTRICAL CONDUCTANCE
(2006) JOURNAL OF TRIBOLOGY, 128 (1), PP. 10-17.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33645792658&DOI=10.1115%2F1.2125947&PARTNERID=40&MD5=C6153286874788641E5CEDF70220DEEC](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33645792658&doi=10.1115%2F1.2125947&partnerid=40&md5=C6153286874788641E5CEDF70220DEEC)

DOI: 10.1115/1.2125947
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
ON RATCHETTING-BASED MODELS OF WEAR AND ROLLING CONTACT FATIGUE (RCF)
(2006) MATERIALPRUEFUNG/MATERIALS TESTING, 48 (3), PP. 85-89.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33645319234&DOI=10.3139%2F120.100713&PARTNERID=40&MD5=7D81CB0B02F9E71CA6E6E1232DFA6188](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33645319234&doi=10.3139%2F120.100713&partnerid=40&md5=7D81CB0B02F9E71CA6E6E1232DFA6188)

DOI: 10.3139/120.100713

DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., BARBER, J.R.
SLIDING THERMOELASTODYNAMIC INSTABILITY
(2006) PROCEEDINGS OF THE ROYAL SOCIETY A: MATHEMATICAL, PHYSICAL AND
ENGINEERING SCIENCES, 462 (2071), PP. 2161-2176.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33749668454&DOI=10.1098%2FRSPA.2006.1676&PARTNERID=40&MD5=8A81C2420E8B08B0E438B86D72B619D3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33749668454&doi=10.1098%2FRSPA.2006.1676&partnerid=40&md5=8A81C2420E8B08B0E438B86D72B619D3)

DOI: 10.1098/RSPA.2006.1676
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., STROZZI, A., BALDINI, A., GIACOPINI, M., RIVASI, S., ROSI, R.
ON THE APPLICABILITY OF THE LOADING PARAMETER Φ IN PINNED CONNECTIONS WITH
RELEVANT INITIAL CLEARANCE
(2006) APPLIED MECHANICS AND MATERIALS, 5-6, PP. 155-164.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-33749340595&DOI=10.4028%2FWWW.SCIENTIFIC.NET%2FAMM.5-6.155&PARTNERID=40&MD5=52C79AECD15FDCAD1188256BC519B41D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33749340595&doi=10.4028%2FWWW.SCIENTIFIC.NET%2FAMM.5-6.155&partnerid=40&md5=52C79AECD15FDCAD1188256BC519B41D)

DOI: 10.4028/WWW.SCIENTIFIC.NET/AMM.5-6.155
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M., DINI, D.
A REFINED CLNA MODEL IN FRETTING FATIGUE USING ASYMPTOTIC CHARACTERIZATION OF
THE CONTACT STRESS FIELDS
(2005) FATIGUE AND FRACTURE OF ENGINEERING MATERIALS AND STRUCTURES, 28 (12), PP.
1099-1112.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-30744472218&DOI=10.1111%2FJ.1460-2695.2005.00948.X&PARTNERID=40&MD5=1100246F1D56F2467038969B27ABD5A9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-30744472218&doi=10.1111%2FJ.1460-2695.2005.00948.X&partnerid=40&md5=1100246F1D56F2467038969B27ABD5A9)

DOI: 10.1111/J.1460-2695.2005.00948.X
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., AFFERRANTE, L., VALENZA, E.
EFFECT OF INTERACTION BETWEEN COLLINEAR CRACKS ON THE STRENGTH DISTRIBUTION
OF BRITTLE MATERIALS
(2005) 11TH INTERNATIONAL CONFERENCE ON FRACTURE 2005, ICF11, 2, PP. 939-944.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-84869779026&PARTNERID=40&MD5=5388DE454AFC39F5B9084DEE980DD82E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84869779026&partnerid=40&md5=5388DE454AFC39F5B9084DEE980DD82E)

DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

PASSERI, D., BETTUCCI, A., GERMANO, M., ROSSI, M., ALIPPI, A., ORLANDUCCI, S., TERRANOVA,
M.L., CIAVARELLA, M.

EFFECT OF TIP GEOMETRY ON LOCAL INDENTATION MODULUS MEASUREMENT VIA ATOMIC FORCE ACOUSTIC MICROSCOPY TECHNIQUE
(2005) REVIEW OF SCIENTIFIC INSTRUMENTS, 76 (9), ART. NO. 093904, .
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-25844437506&DOI=10.1063%2F1.2044607&PARTNERID=40&MD5=9761BC655344D7BB6064D6FF241F7F38](https://www.scopus.com/inward/record.uri?eid=2-s2.0-25844437506&doi=10.1063%2F1.2044607&partnerid=40&md5=9761bc655344d7bb6064d6ff241f7f38)

DOI: 10.1063/1.2044607
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
SEPARATED STEADY STATE SOLUTIONS FOR TWO THERMOELASTIC HALF-PLANES IN CONTACT WITH OUT-OF-PLANE SLIDING
(2005) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 53 (7), PP. 1449-1475.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-18444389979&DOI=10.1016%2FJ.JMPS.2005.02.005&PARTNERID=40&MD5=BB0F4EAACA5E034A19CF6CD8397D6639](https://www.scopus.com/inward/record.uri?eid=2-s2.0-18444389979&doi=10.1016%2FJ.JMPS.2005.02.005&partnerid=40&md5=bb0f4eaaca5e034a19cf6cd8397d6639)

DOI: 10.1016/J.JMPS.2005.02.005
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G., MUROLO, C.
A NUMERICAL ALGORITHM FOR THE SOLUTION OF TWO-DIMENSIONAL ROUGH CONTACT PROBLEMS
(2005) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 40 (5), PP. 463-476.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-23844478211&DOI=10.1243%2F030932405X15936&PARTNERID=40&MD5=865A4CAB3DA13ADFD3E1FB4A95F726C1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-23844478211&doi=10.1243%2F030932405X15936&partnerid=40&md5=865a4cab3da13adfd3e1fb4a95f726c1)

DOI: 10.1243/030932405X15936
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., BARBER, J.R.
STABILITY OF THERMOELASTIC CONTACT FOR A RECTANGULAR ELASTIC BLOCK SLIDING AGAINST A RIGID WALL
(2005) EUROPEAN JOURNAL OF MECHANICS, A/SOLIDS, 24 (3), PP. 371-376.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-19744374629&DOI=10.1016%2FJ.EUROMECHSOL.2004.10.008&PARTNERID=40&MD5=C2111F7144EE7F4BF2FEC13868EFF3BA](https://www.scopus.com/inward/record.uri?eid=2-s2.0-19744374629&doi=10.1016%2FJ.EUROMECHSOL.2004.10.008&partnerid=40&md5=c2111f7144ee7f4bf2fec13868eff3ba)

DOI: 10.1016/J.EUROMECHSOL.2004.10.008
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

ANDERSSON, L.-E., KLARBRING, A., BARBER, J.R., CIAVARELLA, M.
ON THE EXISTENCE AND UNIQUENESS OF STEADY STATE SOLUTIONS IN THERMOELASTIC CONTACT WITH FRICTIONAL HEATING
(2005) PROCEEDINGS OF THE ROYAL SOCIETY A: MATHEMATICAL, PHYSICAL AND ENGINEERING SCIENCES, 461 (2057), PP. 1261-1282.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-26944501226&DOI=10.1098%2FRSPA.2004.1398&PARTNERID=40&MD5=14B76EC51C109E0B0AE163AE71AE88EB](https://www.scopus.com/inward/record.uri?eid=2-s2.0-26944501226&doi=10.1098%2FRSPA.2004.1398&partnerid=40&md5=14B76EC51C109E0B0AE163AE71AE88EB)

DOI: 10.1098/RSPA.2004.1398
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

ADAMS, G.G., BARBER, J.R., CIAVARELLA, M., RICE, J.R.
A PARADOX IN SLIDING CONTACT PROBLEMS WITH FRICTION
(2005) JOURNAL OF APPLIED MECHANICS, TRANSACTIONS ASME, 72 (3), PP. 450-452.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-20444473062&DOI=10.1115%2F1.1867992&PARTNERID=40&MD5=1F005FC0DBA27E689E69C5E4B37EA462](https://www.scopus.com/inward/record.uri?eid=2-s2.0-20444473062&doi=10.1115%2F1.1867992&partnerid=40&md5=1F005FC0DBA27E689E69C5E4B37EA462)

DOI: 10.1115/1.1867992
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
INSTABILITY OF THERMOELASTIC CONTACT FOR TWO HALF-PLANES SLIDING OUT-OF-PLANE WITH CONTACT RESISTANCE AND FRICTIONAL HEATING
(2004) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 52 (7), PP. 1527-1547.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-2442490992&DOI=10.1016%2FJ.JMPS.2004.01.003&PARTNERID=40&MD5=B25BCA1AC4836BFCEFAA699EE5EAC0DE](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2442490992&doi=10.1016%2FJ.JMPS.2004.01.003&partnerid=40&md5=B25BCA1AC4836BFCEFAA699EE5EAC0DE)

DOI: 10.1016/J.JMPS.2004.01.003
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MUROLO, G., DEMELIO, G.
THE ELECTRICAL/THERMAL CONDUCTANCE OF ROUGH SURFACES - THE WEIERSTRASS-ARCHARD MULTISCALE MODEL
(2004) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 41 (15), PP. 4107-4120.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-2542534551&DOI=10.1016%2FJ.IJSOLSTR.2004.02.048&PARTNERID=40&MD5=DD12EFB60B34F0ABE2B3A6E01EE7079F](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2542534551&doi=10.1016%2FJ.IJSOLSTR.2004.02.048&partnerid=40&md5=DD12EFB60B34F0ABE2B3A6E01EE7079F)

DOI: 10.1016/J.IJSOLSTR.2004.02.048
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MUROLO, G., DEMELIO, G., BARBER, J.R.
ELASTIC CONTACT STIFFNESS AND CONTACT RESISTANCE FOR THE WEIERSTRASS PROFILE
(2004) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 52 (6), PP. 1247-1265.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-1642602151&DOI=10.1016%2FJ.JMPS.2003.12.002&PARTNERID=40&MD5=9657E747B49A7EA44077127475C3E9E5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1642602151&doi=10.1016%2FJ.JMPS.2003.12.002&partnerid=40&md5=9657E747B49A7EA44077127475C3E9E5)

DOI: 10.1016/J.JMPS.2003.12.002
DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
THE THERMOELASTIC ALDO CONTACT MODEL WITH FRICTIONAL HEATING
(2004) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 52 (3), PP. 617-640.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-1642382618&DOI=10.1016%2FS0022-5096%2803%2900116-9&PARTNERID=40&MD5=B88176BDDC32755D698FF45FAEAC995F](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1642382618&doi=10.1016%2FS0022-5096%2803%2900116-9&partnerid=40&md5=B88176BDDC32755D698FF45FAEAC995F)

DOI: 10.1016/S0022-5096(03)00116-9
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MENEGHETTI, G.
ON FATIGUE LIMIT IN THE PRESENCE OF NOTCHES: CLASSICAL VS. RECENT UNIFIED FORMULATIONS
(2004) INTERNATIONAL JOURNAL OF FATIGUE, 26 (3), PP. 289-298.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0344081901&DOI=10.1016%2FS0142-1123%2803%2900106-3&PARTNERID=40&MD5=A8E5979EBF3B46C37C3679622C39C828](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0344081901&doi=10.1016%2FS0142-1123%2803%2900106-3&partnerid=40&md5=A8E5979EBF3B46C37C3679622C39C828)

DOI: 10.1016/S0142-1123(03)00106-3
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M.
FRICTIONALLY EXCITED THERMOELASTIC INSTABILITY IN THE PRESENCE OF CONTACT RESISTANCE
(2004) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 39 (4), PP. 351-357.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-3142725491&DOI=10.1243%2F0309324041223926&PARTNERID=40&MD5=81642FC13574CFB60AB35008D9D0EDB4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-3142725491&doi=10.1243%2F0309324041223926&partnerid=40&md5=81642FC13574CFB60AB35008D9D0EDB4)

DOI: 10.1243/0309324041223926
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., BARBER, J.R.
ELASTIC CONTACT STIFFNESS AND CONTACT RESISTANCE FOR FRACTAL PROFILES
(2004) PROCEEDINGS OF THE ASME/STLE INTERNATIONAL JOINT TRIBOLOGY CONFERENCE, IJTC 2004, (PART A), ART. NO. TRIB2004-64357, PP. 103-106.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-21244431642&DOI=10.1115%2FTRIB2004-64357&PARTNERID=40&MD5=73C1407A9782E68C5F26F535C444C5C8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-21244431642&doi=10.1115%2FTRIB2004-64357&partnerid=40&md5=73C1407A9782E68C5F26F535C444C5C8)

DOI: 10.1115/TRIB2004-64357
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

BARBER, J.R., CIAVARELLA, M., AFFERRANTE, L.
INFLUENCE OF THERMAL CONTACT RESISTANCE ON FRICTIONALLY EXCITED THERMOELASTIC INSTABILITY (TEI)

(2004) PROCEEDINGS OF THE ASME/STLE INTERNATIONAL JOINT TRIBOLOGY CONFERENCE, IJTC 2004, (PART A), ART. NO. TRIB2004-64367, PP. 123-126.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-21244432800&DOI=10.1115%2FTRIB2004-64367&PARTNERID=40&MD5=6FE851B4F6A5A10D91283643E22B0B7C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-21244432800&doi=10.1115%2FTRIB2004-64367&partnerid=40&md5=6FE851B4F6A5A10D91283643E22B0B7C)

DOI: 10.1115/TRIB2004-64367
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

PONTER, A.R.S., AFFERRANTE, L., CIAVARELLA, M.
A NOTE ON MERWIN'S MEASUREMENTS OF FORWARD FLOW IN ROLLING CONTACT
(2004) WEAR, 256 (3-4), PP. 321-328.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-1442289344&DOI=10.1016%2FS0043-1648%2803%2900407-1&PARTNERID=40&MD5=2ED62DDE004FB4675E1BEE9E7F45327B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1442289344&doi=10.1016%2FS0043-1648%2803%2900407-1&partnerid=40&md5=2ED62DDE004FB4675E1BEE9E7F45327B)

DOI: 10.1016/S0043-1648(03)00407-1
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., DEMELIO, G.
A RE-EXAMINATION OF ROLLING CONTACT FATIGUE EXPERIMENTS BY CLAYTON AND SU WITH SUGGESTIONS FOR SURFACE DURABILITY CALCULATIONS
(2004) WEAR, 256 (3-4), PP. 329-334.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-1442264824&DOI=10.1016%2FS0043-1648%2803%2900408-3&PARTNERID=40&MD5=01DCF0B18C4A8B19262247745A88E91E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1442264824&doi=10.1016%2FS0043-1648%2803%2900408-3&partnerid=40&md5=01DCF0B18C4A8B19262247745A88E91E)

DOI: 10.1016/S0043-1648(03)00408-3
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MAITOURNAM, H., EKBERG, A., KABO, E., ANDERSSON, H.
ON THE EKBERG, KABO AND ANDERSSON CALCULATION OF THE DANG VAN HIGH CYCLE FATIGUE LIMIT FOR ROLLING CONTACT FATIGUE (MULTIPLE LETTERS)
(2004) FATIGUE AND FRACTURE OF ENGINEERING MATERIALS AND STRUCTURES, 27 (6), PP. 523-526.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-2442693135&DOI=10.1111%2FJ.1460-2695.2004.00772.X&PARTNERID=40&MD5=F52D1F138F84DF51A2371D2CA0E5B1CD](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2442693135&doi=10.1111%2FJ.1460-2695.2004.00772.X&partnerid=40&md5=F52D1F138F84DF51A2371D2CA0E5B1CD)

DOI: 10.1111/J.1460-2695.2004.00772.X
DOCUMENT TYPE: LETTER
SOURCE: SCOPUS

CIAVARELLA, M.
A 'CRACK-LIKE' NOTCH ANALOGUE FOR A SAFE-LIFE FRETTING FATIGUE DESIGN METHODOLOGY
(2003) FATIGUE AND FRACTURE OF ENGINEERING MATERIALS AND STRUCTURES, 26 (12), PP. 1159-1170.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0346335674&DOI=10.1046%2FJ.1460-2695.2003.00721.X&PARTNERID=40&MD5=95335349C02A79BBE68277EFC086F0F1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0346335674&doi=10.1046%2FJ.1460-2695.2003.00721.X&partnerid=40&md5=95335349C02A79BBE68277EFC086F0F1)

DOI: 10.1046/J.1460-2695.2003.00721.X
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

VLASSAK, J.J., CIAVARELLA, M., BARBER, J.R., WANG, X.
THE INDENTATION MODULUS OF ELASTICALLY ANISOTROPIC MATERIALS FOR INDENTERS OF ARBITRARY SHAPE
(2003) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, 51 (9), PP. 1701-1721.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0041764523&DOI=10.1016%2FS0022-5096%2803%2900066-8&PARTNERID=40&MD5=3CCA246FFDC1CA71A7250C3524BDBAA3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0041764523&doi=10.1016%2FS0022-5096%2803%2900066-8&partnerid=40&md5=3CCA246FFDC1CA71A7250C3524BDBAA3)

DOI: 10.1016/S0022-5096(03)00066-8
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MACINA, G.
NEW RESULTS FOR THE FRETTING-INDUCED STRESS CONCENTRATION ON HERTZIAN AND FLAT ROUNDED CONTACTS
(2003) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 45 (3), PP. 449-467.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0037508855&DOI=10.1016%2FS0020-7403%2803%2900061-4&PARTNERID=40&MD5=906A4766764A1669AA2098B5AF1F2D2D](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0037508855&doi=10.1016%2FS0020-7403%2803%2900061-4&partnerid=40&md5=906A4766764A1669AA2098B5AF1F2D2D)

DOI: 10.1016/S0020-7403(03)00061-4
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., DECUZZI, P., DEMELIO, G.
THERMOELASTIC INSTABILITY IN A THIN LAYER SLIDING BETWEEN TWO HALF-PLANES: TRANSIENT BEHAVIOUR
(2003) TRIBOLOGY INTERNATIONAL, 36 (3), PP. 205-212.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0037333673&DOI=10.1016%2FS0301-679X%2802%2900185-8&PARTNERID=40&MD5=323311B9B38195CE9BB5BA405B19AE88](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0037333673&doi=10.1016%2FS0301-679X%2802%2900185-8&partnerid=40&md5=323311B9B38195CE9BB5BA405B19AE88)

DOI: 10.1016/S0301-679X(02)00185-8
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MACINA, G.
A NOTE ON THE CRACK ANALOGUE MODEL FOR FRETTING FATIGUE
(2003) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 40 (4), PP. 807-825.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0037319862&DOI=10.1016%2FS0020-7683%2802%2900652-2&PARTNERID=40&MD5=03596D09BEB6200ED289F40F82D80DBE](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0037319862&doi=10.1016%2FS0020-7683%2802%2900652-2&partnerid=40&md5=03596D09BEB6200ED289F40F82D80DBE)

DOI: 10.1016/S0020-7683(02)00652-2

DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G.
AN ASSESSMENT OF ARCHARD AND PERSSON'S MODELS FOR THE ELASTIC CONTACT OF
ROUGH SURFACES
(2003) CONTACT MECHANICS - FRICTION: MODELING AND EXPERIMENT, PP. 163-165.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-1842530536&DOI=10.1115%2F2003-TRIB-0284&PARTNERID=40&MD5=22D99B61DF37CD50B772A2C9209EEE5C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1842530536&doi=10.1115%2F2003-TRIB-0284&partnerid=40&md5=22D99B61DF37CD50B772A2C9209EEE5C)

DOI: 10.1115/2003-TRIB-0284
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M., AFFERRANTE, L.
ON RATCHETTING-BASED MODELS OF WEAR AND ROLLING CONTACT FATIGUE (RCF)
(2003) CONTACT MECHANICS - FRICTION: MODELING AND EXPERIMENT, PP. 167-172.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-1842530532&DOI=10.1115%2F2003-TRIB-0285&PARTNERID=40&MD5=56E661145528D78E305399437EA03898](https://www.scopus.com/inward/record.uri?eid=2-s2.0-1842530532&doi=10.1115%2F2003-TRIB-0285&partnerid=40&md5=56E661145528D78E305399437EA03898)

DOI: 10.1115/2003-TRIB-0285
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M., DECUZZI, P., TAGARIELLI, V.L., DEMELIO, G.P.
SIMPLE FORMULAS FOR THERMOELASTIC STRESSES IN TBC COATINGS
(2003) JOURNAL OF THERMAL STRESSES, 26 (5), PP. 409-422.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0242443322&DOI=10.1080%2F713855940&PARTNERID=40&MD5=003E3293E605F2E05D8B61D48CF8A5B5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0242443322&doi=10.1080%2F713855940&partnerid=40&md5=003E3293E605F2E05D8B61D48CF8A5B5)

DOI: 10.1080/713855940
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

AFFERRANTE, L., CIAVARELLA, M., DECUZZI, P., DEMELIO, G.
TRANSIENT ANALYSIS OF FRICTIONALLY EXCITED THERMOELASTIC INSTABILITY IN MULTI-
DISK CLUTCHES AND BRAKES
(2003) WEAR, 254 (1-2), PP. 136-146.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0037247804&DOI=10.1016%2FS0043-1648%2802%2900306-X&PARTNERID=40&MD5=CAEEA2F11D8933849C76D673ADBC1DCD](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0037247804&doi=10.1016%2FS0043-1648%2802%2900306-X&partnerid=40&md5=CAEEA2F11D8933849C76D673ADBC1DCD)

DOI: 10.1016/S0043-1648(02)00306-X
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., JOHANSSON, L., AFFERRANTE, L., KLARBRING, A., BARBER, J.R.
INTERACTION OF THERMAL CONTACT RESISTANCE AND FRICTIONAL HEATING IN
THERMOELASTIC INSTABILITY
(2003) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 40 (21), PP. 5583-5597.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0141456222&DOI=10.1016%2FS0020-7683%2803%2900313-5&PARTNERID=40&MD5=5CBDFEE4B03098A394E6010ED872A2B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0141456222&doi=10.1016%2FS0020-7683%2803%2900313-5&partnerid=40&md5=5CBDFEE4B03098A394E6010ED872A2B)

DOI: 10.1016/S0020-7683(03)00313-5
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., MACINA, G., DEMELIO, G.P.
ON STRESS CONCENTRATION ON NEARLY FLAT CONTACTS
(2002) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 37 (6), PP. 493-501.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0036864296&DOI=10.1243%2F030932402320950116&PARTNERID=40&MD5=61839454A29119F513B274081A09F1E4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0036864296&doi=10.1243%2F030932402320950116&partnerid=40&md5=61839454A29119F513B274081A09F1E4)

DOI: 10.1243/030932402320950116
DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

FILIPPI, S., CIAVARELLA, M., LAZZARIN, P.
AN APPROXIMATE, ANALYTICAL APPROACH TO THE 'HRR'-SOLUTION FOR SHARP V-NOTCHES
(2002) INTERNATIONAL JOURNAL OF FRACTURE, 117 (3), PP. 269-286.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0036820270&DOI=10.1023%2FA%3A1022057621185&PARTNERID=40&MD5=A79A0BF7781A069FA8B778F2B4FE6975](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0036820270&doi=10.1023%2FA%3A1022057621185&partnerid=40&md5=A79A0BF7781A069FA8B778F2B4FE6975)

DOI: 10.1023/A:1022057621185
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DINI, D., DEMELIO, G.P.
A CRITICAL ASSESSMENT OF DAMAGE PARAMETERS FOR FRETTING FATIGUE
(2002) ASTM SPECIAL TECHNICAL PUBLICATION, (1425), PP. 108-117.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0037839773&PARTNERID=40&MD5=1E9C316D2779B373F361224869B574C4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0037839773&partnerid=40&md5=1E9C316D2779B373F361224869B574C4)

DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G., SCHINO, M., VLASSAK, J.J.
THE GENERAL 3D HERTZIAN CONTACT PROBLEM FOR ANISOTROPIC MATERIALS
(2002) KEY ENGINEERING MATERIALS, 221-222, PP. 281-292.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0036431008&PARTNERID=40&MD5=AF3AC12F3D9F53EEBA17642B0640B994](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0036431008&partnerid=40&md5=AF3AC12F3D9F53EEBA17642B0640B994)

DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M., DECUZZI, P., MONNO, G.
THE DESIGN OF HYDRODYNAMICALLY LUBRICATED JOURNAL BEARINGS AGAINST CRACK PROPAGATION
(2001) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 36 (2), PP. 245-250.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0035735450&DOI=10.1243%2F0309324011512676&PARTNERID=40&MD5=5DF61F5CDA8ED0DB904948DEC0461679](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035735450&doi=10.1243%2F0309324011512676&partnerid=40&md5=5DF61F5CDA8ED0DB904948DEC0461679)

DOI: 10.1243/0309324011512676
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

BORRI-BRUNETTO, M., CHIAIA, B., CIAVARELLA, M.
INCIPIENT SLIDING OF ROUGH SURFACES IN CONTACT: A MULTISCALE NUMERICAL ANALYSIS
(2001) COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, 190 (46-47), PP. 6053-6073.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0035860272&DOI=10.1016%2FS0045-7825%2801%2900218-3&PARTNERID=40&MD5=5C212CFF5747ABF40079CF00B768FD2C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035860272&doi=10.1016%2FS0045-7825%2801%2900218-3&partnerid=40&md5=5C212CFF5747ABF40079CF00B768FD2C)

DOI: 10.1016/S0045-7825(01)00218-3
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DECUZZI, P.
THE STATE OF STRESS INDUCED BY THE PLANE FRICTIONLESS CYLINDRICAL CONTACT. I. THE CASE OF ELASTIC SIMILARITY
(2001) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 38 (26-27), PP. 4507-4523.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0035872809&DOI=10.1016%2FS0020-7683%2800%2900289-4&PARTNERID=40&MD5=514211B9523A11E53AFB634246157684](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035872809&doi=10.1016%2FS0020-7683%2800%2900289-4&partnerid=40&md5=514211B9523A11E53AFB634246157684)

DOI: 10.1016/S0020-7683(00)00289-4
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DECUZZI, P.
THE STATE OF STRESS INDUCED BY THE PLANE FRICTIONLESS CYLINDRICAL CONTACT. II. THE GENERAL CASE (ELASTIC DISSIMILARITY)
(2001) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 38 (26-27), PP. 4525-4533.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0035872677&DOI=10.1016%2FS0020-7683%2800%2900290-0&PARTNERID=40&MD5=9EDCE6893FEECC9C722F33A1E483DEDD](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035872677&doi=10.1016%2FS0020-7683%2800%2900290-0&partnerid=40&md5=9EDCE6893FEECC9C722F33A1E483DEDD)

DOI: 10.1016/S0020-7683(00)00290-0
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G.
A REVIEW OF ANALYTICAL ASPECTS OF FRETTING FATIGUE, WITH EXTENSION TO DAMAGE PARAMETERS, AND APPLICATION TO DOVETAIL JOINTS
(2001) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 38 (10-13), PP. 1791-1811.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0035966421&DOI=10.1016%2FS0020-7683%2800%2900136-0&PARTNERID=40&MD5=75D587D6BDC27202B31A7A07439F7080](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035966421&doi=10.1016%2FS0020-7683%2800%2900136-0&partnerid=40&md5=75D587D6BDC27202B31A7A07439F7080)

DOI: 10.1016/S0020-7683(00)00136-0
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G.
ELASTIC MULTISCALE CONTACT OF ROUGH SURFACES: ARCHARD'S MODEL REVISITED AND
COMPARISONS WITH MODERN FRACTAL MODELS
(2001) JOURNAL OF APPLIED MECHANICS, TRANSACTIONS ASME, 68 (3), PP. 496-498.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0011542283&DOI=10.1115%2F1.1352016&PARTNERID=40&MD5=8FD7A8915695E4C7190870AD405E8557](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0011542283&doi=10.1115%2F1.1352016&partnerid=40&md5=8FD7A8915695E4C7190870AD405E8557)

DOI: 10.1115/1.1352016
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

BERGAMINI, G., CIAVARELLA, M., DEMELIO, G.
RECENT TRENDS IN STRUCTURAL DESIGN OF ULTRA-LIGHT REFRIGERATED SEMITRAILERS
(2001) HEAVY VEHICLE SYSTEMS, 8 (2), PP. 142-154.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0034974916&DOI=10.1504%2FIJHVS.2001.001157&PARTNERID=40&MD5=3E29020373264470D6B6E2A20540E357](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0034974916&doi=10.1504%2FIJHVS.2001.001157&partnerid=40&md5=3E29020373264470D6B6E2A20540E357)

DOI: 10.1504/IJHVS.2001.001157
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
CONDITIONS OF YIELD AND CYCLIC PLASTICITY AROUND INCLUSIONS
(2000) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 35 (1), PP. 65-70.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0033878033&DOI=10.1243%2F0309324001514026&PARTNERID=40&MD5=9C63429D33E1CBF12C2852F9E3CF4521](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033878033&doi=10.1243%2F0309324001514026&partnerid=40&md5=9C63429D33E1CBF12C2852F9E3CF4521)

DOI: 10.1243/0309324001514026
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

BARBER, J.R., CIAVARELLA, M.
CONTACT MECHANICS
(2000) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 37 (1-2), PP. 29-43.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0033898029&DOI=10.1016%2FS0020-7683%2899%2900075-X&PARTNERID=40&MD5=892CE65833C542AE36BE9C64E7F1924B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033898029&doi=10.1016%2FS0020-7683%2899%2900075-X&partnerid=40&md5=892CE65833C542AE36BE9C64E7F1924B)

DOI: 10.1016/S0020-7683(99)00075-X
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G.
ON THE EXTRACTION OF NOTCH STRESS INTENSITY FACTORS BY THE POST-PROCESSING OF
STRESS DATA ON THE FREE EDGES OF THE NOTCH

(2000) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 35 (3), PP. 221-226.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0033704905&DOI=10.1243%2F0309324001514369&PARTNERID=40&MD5=9A5830937BD99119318A024A9E1CDCCF](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033704905&doi=10.1243%2F0309324001514369&partnerid=40&md5=9A5830937BD99119318A024A9E1CDCCF)

DOI: 10.1243/0309324001514369
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DECUZZI, P., MONNO, G.
FRICTIONALLY-EXCITED THERMOELASTIC CONTACT OF ROUGH SURFACES
(2000) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 42 (7), PP. 1307-1325.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0033907758&DOI=10.1016%2FS0020-7403%2899%2900051-X&PARTNERID=40&MD5=CED3D309CD46D535D172D155A51EB83A](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033907758&doi=10.1016%2FS0020-7403%2899%2900051-X&partnerid=40&md5=CED3D309CD46D535D172D155A51EB83A)

DOI: 10.1016/S0020-7403(99)00051-X
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G., HILLS, D.A.
ANALYSIS OF ROTATING BENDING FRETTING FATIGUE TESTS USING BRIDGE SPECIMENS
(2000) ASTM SPECIAL TECHNICAL PUBLICATION, (1367), PP. 404-422.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0033874750&PARTNERID=40&MD5=AFB97056DA8D016E469CB14F141BBC8C](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033874750&partnerid=40&md5=AFB97056DA8D016E469CB14F141BBC8C)

DOCUMENT TYPE: CONFERENCE PAPER
SOURCE: SCOPUS

CIAVARELLA, M.
INDENTATION BY NOMINALLY FLAT OR CONICAL INDENTERS WITH ROUNDED CORNERS
(1999) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 36 (27), PP. 4149-4181.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032636491&DOI=10.1016%2FS0020-7683%2898%2900186-3&PARTNERID=40&MD5=BC95CB081EF0744A5D49727CDF43644B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032636491&doi=10.1016%2FS0020-7683%2898%2900186-3&partnerid=40&md5=BC95CB081EF0744A5D49727CDF43644B)

DOI: 10.1016/S0020-7683(98)00186-3
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G.
NUMERICAL METHODS FOR THE OPTIMISATION OF SPECIFIC SLIDING, STRESS CONCENTRATION AND FATIGUE LIFE OF GEARS
(1999) INTERNATIONAL JOURNAL OF FATIGUE, 21 (5), PP. 465-474.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0345534595&DOI=10.1016%2FS0142-1123%2898%2900089-9&PARTNERID=40&MD5=F542C8F9133E810D48639DC94B9BDC1B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0345534595&doi=10.1016%2FS0142-1123%2898%2900089-9&partnerid=40&md5=F542C8F9133E810D48639DC94B9BDC1B)

DOI: 10.1016/S0142-1123(98)00089-9
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., HILLS, D.A.
THE INFLUENCE OF THE INDENTER TIP-RADIUS ON INDENTATION TESTING OF BRITTLE MATERIALS

(1999) JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 19 (2), PP. 239-245.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0033079444&DOI=10.1016%2FS0955-2219%2898%2900188-5&PARTNERID=40&MD5=AB212560B61813DE57D847E9451D797E](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033079444&doi=10.1016%2FS0955-2219%2898%2900188-5&partnerid=40&md5=AB212560B61813DE57D847E9451D797E)

DOI: 10.1016/S0955-2219(98)00188-5

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G.
ON NON-SYMMETRICAL PLANE CONTACTS

(1999) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 41 (12), PP. 1533-1550.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032652297&DOI=10.1016%2FS0020-7403%2898%2900105-2&PARTNERID=40&MD5=68B75BB1B84D851C9C7EF79D19C24FA0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032652297&doi=10.1016%2FS0020-7403%2898%2900105-2&partnerid=40&md5=68B75BB1B84D851C9C7EF79D19C24FA0)

DOI: 10.1016/S0020-7403(98)00105-2

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., HILLS, D.A.
BRIEF NOTE: SOME OBSERVATIONS ON OSCILLATING TANGENTIAL FORCES AND WEAR IN GENERAL PLANE CONTACTS

(1999) EUROPEAN JOURNAL OF MECHANICS, A/SOLIDS, 18 (3), PP. 491-497.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032598332&DOI=10.1016%2FS0997-7538%2899%2900117-5&PARTNERID=40&MD5=F8108CA39ADC85078656C645827E5733](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032598332&doi=10.1016%2FS0997-7538%2899%2900117-5&partnerid=40&md5=F8108CA39ADC85078656C645827E5733)

DOI: 10.1016/S0997-7538(99)00117-5

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., HILLS, D.A.
NOTE ON CONVECTIVE EFFECTS IN ELASTIC CONTACT PROBLEMS FOR DISSIMILAR MATERIALS

(1999) EUROPEAN JOURNAL OF MECHANICS, A/SOLIDS, 18 (3), PP. 481-490.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032598328&DOI=10.1016%2FS0997-7538%2899%2900115-1&PARTNERID=40&MD5=4B2391E668EB2767E3A25D1C151DB1ED](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032598328&doi=10.1016%2FS0997-7538%2899%2900115-1&partnerid=40&md5=4B2391E668EB2767E3A25D1C151DB1ED)

DOI: 10.1016/S0997-7538(99)00115-1

DOCUMENT TYPE: ARTICLE

SOURCE: SCOPUS

CIAVARELLA, M., HILLS, D.A., MOOBOLA, R.
ANALYSIS OF PLANE AND ROUGH CONTACTS, SUBJECT TO A SHEARING FORCE
(1999) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 41 (1), PP. 107-120.

[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032761419&DOI=10.1016%2FS0020-7403%2898%2900038-1&PARTNERID=40&MD5=D536E5F6C3DB6E9D44CA7513E2DC5385](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032761419&doi=10.1016%2FS0020-7403%2898%2900038-1&partnerid=40&md5=D536E5F6C3DB6E9D44CA7513E2DC5385)

DOI: 10.1016/S0020-7403(98)00038-1
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G., HILLS, D.A.
USE OF ALMOST COMPLETE CONTACTS FOR FRETTING FATIGUE TESTS
(1999) ASTM SPECIAL TECHNICAL PUBLICATION, (1332), PP. 696-709.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032674606&DOI=10.1520%2FSTP14978S&PARTNERID=40&MD5=19C4E1E7C9DD57061FAFC30145EC6ED3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032674606&doi=10.1520%2FSTP14978S&partnerid=40&md5=19C4E1E7C9DD57061FAFC30145EC6ED3)

DOI: 10.1520/STP14978S
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DECUZZI, P., DEMELIO, G., MONNO, G., HILLS, D.A.
DESIGN OF HYDRODYNAMICALLY LUBRICATED JOURNAL BEARINGS AGAINST YIELD
(1999) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 34 (3), PP. 165-173.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032623724&DOI=10.1243%2F0309324991513722&PARTNERID=40&MD5=FAA89712EC3A77BDA0FE0749FD782DFD](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032623724&doi=10.1243%2F0309324991513722&partnerid=40&md5=FAA89712EC3A77BDA0FE0749FD782DFD)

DOI: 10.1243/0309324991513722
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., HILLS, D.A., MONNO, G.
CONTACT PROBLEMS FOR A WEDGE WITH ROUNDED APEX
(1998) INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, 40 (10), PP. 977-988.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032187633&DOI=10.1016%2FS0020-7403%2897%2900141-0&PARTNERID=40&MD5=6B4DF055E5AF7D42F136215B994D72C2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032187633&doi=10.1016%2FS0020-7403%2897%2900141-0&partnerid=40&md5=6B4DF055E5AF7D42F136215B994D72C2)

DOI: 10.1016/S0020-7403(97)00141-0
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
THE GENERALIZED CATTANEO PARTIAL SLIP PLANE CONTACT PROBLEM, I - THEORY
(1998) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 35 (18), PP. 2349-2362.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032083723&DOI=10.1016%2FS0020-7683%2897%2900154-6&PARTNERID=40&MD5=C8CA20236FC2E4585778953C4710BA08](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032083723&doi=10.1016%2FS0020-7683%2897%2900154-6&partnerid=40&md5=C8CA20236FC2E4585778953C4710BA08)

DOI: 10.1016/S0020-7683(97)00154-6
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
THE GENERALIZED CATTANEO PARTIAL SLIP PLANE CONTACT PROBLEM. II - EXAMPLES
(1998) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, 35 (18), PP. 2363-2378.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0032083686&DOI=10.1016%2FS0020-7683%2897%2900155-8&PARTNERID=40&MD5=0DE63412E7A74DF637CCC095C540491B](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032083686&doi=10.1016%2FS0020-7683%2897%2900155-8&partnerid=40&md5=0DE63412E7A74DF637CCC095C540491B)

DOI: 10.1016/S0020-7683(97)00155-8
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M.
TANGENTIAL LOADING OF GENERAL THREE-DIMENSIONAL CONTACTS
(1998) JOURNAL OF APPLIED MECHANICS, TRANSACTIONS ASME, 65 (4), PP. 998-1003.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0001152963&DOI=10.1115%2F1.2791944&PARTNERID=40&MD5=06ED6F4B5E3F891F7B1EB2E757FC66C4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0001152963&doi=10.1115%2F1.2791944&partnerid=40&md5=06ED6F4B5E3F891F7B1EB2E757FC66C4)

DOI: 10.1115/1.2791944
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., HILLS, D.A., MONNO, G.
THE INFLUENCE OF ROUNDED EDGES ON INDENTATION BY A FLAT PUNCH
(1998) PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C: JOURNAL OF MECHANICAL ENGINEERING SCIENCE, 212 (4), PP. 319-327.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0031699271&DOI=10.1243%2F0954406981521259&PARTNERID=40&MD5=8509DB48DCCFF9F95C8021E3724AED25](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0031699271&doi=10.1243%2F0954406981521259&partnerid=40&md5=8509DB48DCCFF9F95C8021E3724AED25)

DOI: 10.1243/0954406981521259
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G., PAPPALLETTERE, C.
ON THE POST-PROCESSING OF DATA OBTAINED FROM CRACKED COMPONENTS
(1998) JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, 33 (1), PP. 67-70.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0031649410&DOI=10.1243%2F0309324981512823&PARTNERID=40&MD5=B63611A2671AF0A4EFB6EC80BFBD89F1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0031649410&doi=10.1243%2F0309324981512823&partnerid=40&md5=B63611A2671AF0A4EFB6EC80BFBD89F1)

DOI: 10.1243/0309324981512823
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS

CIAVARELLA, M., DEMELIO, G., MONNO, G., HILLS, D.A.
THE INFLUENCE OF SPECIMEN SIZE ON THE SURFACE STRESS DISTRIBUTION INDUCED BY INDENTATION TESTING
(1997) JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 17 (14), PP. 1691-1696.
[HTTPS://WWW.SCOPUS.COM/INWARD/RECORD.URI?EID=2-S2.0-0031383587&DOI=10.1016%2FS0955-2219%2897%2900039-3&PARTNERID=40&MD5=D2AB500872DEDA240355D45F4D264800](https://www.scopus.com/inward/record.uri?eid=2-s2.0-0031383587&doi=10.1016%2FS0955-2219%2897%2900039-3&partnerid=40&md5=D2AB500872DEDA240355D45F4D264800)

DOI: 10.1016/S0955-2219(97)00039-3
DOCUMENT TYPE: ARTICLE
SOURCE: SCOPUS