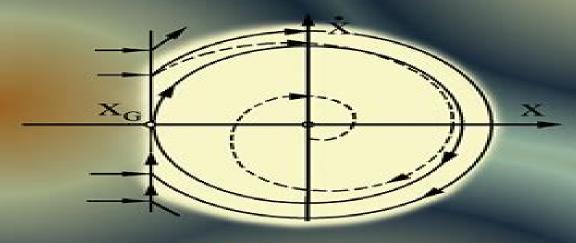
# New Solutions in Contact Mechanics



J. Jaeger





# **New Solutions In Contact Mechanics**

Valentin L. Popov, Markus Heß, Emanuel Willert

#### **New Solutions In Contact Mechanics:**

New Solutions in Contact Mechanics Juergen Jaeger, 2005 The result of around 20 years of research by the author this book features some previously unpublished solutions that will be useful for scientific investigation and mechanical design A boundary element algorithm for contact with friction is discussed and a demonstration version with 800 contact points is included on an accompanying CD ROM All of the chapters are more or less self contained while the derivations used are suitable for undergraduate students Readers will also find new information such as the correspondence between friction and normal contact conditions which may aid further developments in this field BOOK JACKET Method of Dimensionality Reduction in Contact Mechanics Valentin L. Popov, Markus Hess, Emanuel Willert, 2018-08-08 The present book is a collection of open access papers describing the foundations and applications of the Method of Dimensionality Reduction MDR first published in the Journal Facta Universitatis Series Mechanical Enginerring in the years 2014 2018 The Method of Dimensionality Reduction MDR is a method of calculation and simulation of contacts of elastic and viscoelastic bodies It consists essentially of two simple steps a substitution of the three dimensional continuum by a uniquely defined one dimensional linearly elastic or viscoelastic foundation Winkler foundation and b transformation of the three dimensional profile of the contacting bodies by means of the MDR transformation As soon as these two steps are done the contact problem can be considered to be solved For axial symmetric contacts only a small calculation by hand is required which does not exceed elementary calculus and will not be a barrier for any practically oriented engineer Alternatively the MDR can be implemented numerically which is almost trivial due to the independence of the foundation elements In spite of its simplicity all results are exact The present book brings together papers covering the most important aspects of the MDR and providing a practical guide for its use Contact mechanics perspective of tribology Irina Goryacheva, Marco Paggi, Valentin L. Popov, 2021-06-04 Kontaktmechanik und Reibung Valentin L. Popov, 2016-01-12 Das anwendungsorientierte Buch f hrt in den Zusammenhang von Kontaktmechanik und Reibung ein und erm glicht damit ein tieferes Verst ndnis der Tribologie Es behandelt die eng zusammenh ngenden Ph nomene Kontakt Adh sion Kapillarkr fte Reibung Schmierung und Verschlei unter einem einheitlichen Gesichtspunkt Der Autor geht ein auf 1 Methoden zur groben Absch tzung von tribologischen Gr en 2 Methoden zur analytischen Berechnung in einem minimal erforderlichen Umfang und 3 den bergang zu numerischen Simulationsmethoden Damit vermittelt er einen einheitlichen Blick auf tribologische Prozesse in verschiedenen Skalen von der Nanotribologie bis zur Erdbebenforschung Auch systemdynamische Aspekte von tribologischen Systemen wie Quietschen und seine Bek mpfung sowie andere Typen von Instabilit ten und Musterbildung werden vermittelt Aufgaben mit durchgerechneten L sungen zu einzelnen Kapiteln dienen der Vertiefung und praktischen Anwendung des behandelten Stoffs Neu an der 3 Auflage sind eine ausf hrlichere Darstellung der elastohydrodynamischen Schmierung ein erweitertes und aktualisiertes Kapitel zu numerischen Simulationsmethoden in der Kontaktmechanik die Erweiterung des Kapitels Verschlei

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Current Trends and Open Problems in Computational Mechanics Fadi Aldakheel, Blaž Hudobivnik, Meisam Soleimani, Henning Wessels, Christian Weißenfels, Michele Marino, 2022-03-12 This Festschrift is dedicated to Professor Dr Ing habil Peter Wriggers on the occasion of his 70th birthday Thanks to his high dedication to research over the years Peter Wriggers has built an international network with renowned experts in the field of computational mechanics This is proven by the large number of contributions from friends and collaborators as well as former PhD students from all over the world The diversity of Peter Wriggers network is mirrored by the range of topics that are covered by this book To name only a few these include contact mechanics finite virtual element technologies micromechanics multiscale approaches fracture mechanics isogeometric analysis stochastic methods meshfree and particle methods Applications of numerical simulation to specific problems e g Biomechanics and Additive Manufacturing is also covered The volume intends to present an overview of the state of the art and current trends in computational mechanics for academia and industry Contact Mechanics I.R. Barber, 2018-02-09 This book describes the solution of contact problems with an emphasis on idealized mainly linear elastic problems that can be treated with elementary analytical methods General physical and mathematical features of these solutions are highlighted Topics covered include the contact of rough surfaces and problems involving adhesive e g van der Waals forces The author is a well known researcher in the subject with hands on experience of the topics covered and a reputation for lucid explanations. The target readership for the book includes researchers who encounter contact problems but whose primary focus is not contact mechanics Coverage is also suitable for a graduate course in contact mechanics and Contact Mechanics and Friction Valentin L. Popov, 2010-03-10 The English edition end of chapter problems are included of Contact Mechanics and Friction lying before you is for st the most part the text of the 1 German edition Springer Publishing 2009 The book was expanded by the addition of a chapter on frictional problems in ear quake research Additionally Chapter 15 was supplemented by a section on elasto hydrodynamics The problem sections of several chapters were enriched by the addition of new examples This book would not have been possible without the active support of J Gray who translated it from the German edition I would like to thank Prof G G charyan and Prof S Sobolev for discussions and critical comments on the chapter over earthquake dynamics Dr R Heise made significant contributions to the velopment and correction of new problems I would like to convey my affecti ate thanks to Dr J Starcevic for her complete support during the composition of this book I want to thank Ms Ch Koll for her patience in creating figures and Dr R Heise M Popov M He S K rscher and B Grzemba for their help in pro reading Berlin November 2009 V L Popov Preface to the German Edition Applied Mechanics Reviews ,1986 Mixed Boundary Value Problems of Potential Theory and Their Applications in

Engineering V. Fabrikant, 1991-07-29 Introduction to Contact Mechanics Anthony C. Fischer-Cripps, 2000-04-27 Mechanical engineering an engineering discipline forged and shaped by the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions The Mechanical Engineering Series features graduate texts and research mo graphs intended to address the need for information in contemporary areas of mechanical engineering The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and search We are fortunate to have a distinguished roster of consulting editors on the advisory board each an expert in one of the areas of concentration The names of the consulting editors are listed on the facing page of this volume The areas of concentration are applied mechanics biomechanics computational chanics dynamic systems and control energetics mechanics of materials pr essing production systems thermal science and tribology Professor Finnie the consulting editor for mechanics of materials and I are pleased to present Introduction to Contact Mechanics by Anthony C Fischer Cripps **Contact Mechanics--friction** ,2003 Contact Mechanics K. L. Johnson, 1987-08-28 This treatise is concerned with the stresses and deformation of solid bodies in contact with each other along curved surfaces which touch initially at a point or along a line Examples are a railway wheel and rail or a pair of gear wheel teeth Professor Johnson first reviews the development of the theory of contact stresses since the problem was originally addressed by H Hertz in 1882 Next he discusses the influence of friction and the topographical roughness of surfaces and this is incorporated into the theory of contact mechanics An important feature is the treatment of bodies which deform plastically or viscoelastically In addition to stationary contact an appreciable section of the book is concerned with bodies which are in sliding or rolling contact or which collide Mathematical Reviews ,2008 **Discrete Contact Mechanics with Applications in Tribology** Irina Goryacheva, Yulia Makhovskaya, 2022-05-03 Discrete Contact Mechanics with Applications in Tribology presents new solutions to contact problems for elastic and viscoelastic bodies in normal sliding and rolling contact taking into account effects such as surface microgeometry adhesion fluid films and viscous hysteresis in bulk material or surface layers. These solutions are applied to problems in tribology for modeling contact and friction of bodies with surface microgeometry rough or textured The book provides exact mathematical formulations for cases of discrete contact based on classical approaches of contact mechanics allowing readers to study the influence of different parameters of surface microgeometry on contact characteristics and friction force The book will help solve problems in modeling contact and friction interaction in cases of discrete character of contact interaction mutual influence of individual contact spots in contact interaction of elastic and viscoelastic solids calculating sliding and rolling friction forces as a result of adhesive and viscoelastic mechanisms of dissipation and more Provides a raft of solutions to contact problems for elastic and viscoelastic materials in normal sliding and rolling contact Provides solutions and formulations that consider surface microgeometry

adhesion fluid films viscous hysteresis in bulk material or surface layers and other common material effects Features applied methods based on classical contact mechanics approaches allowing for analytic and half analytic treatment of problems

Modelling of High Complexity Systems with Applications Florin Stănciulescu,2005 An interdisciplinary research monograph providing methods techniques and tools for computer analysis modelling simulation and control of complex systems. It demonstrates how the theory discussed can be applied to solve aquatic terrestrial and atmospheric environmental problems and addresses a wide audience of theoreticians and practitioners including systems analysts designers control engineers informaticians ecologists biologists hydrologists physicists and chemists. Sci-tech News ,2005. Applied Numerical Analysis. Matiur Rahman,2005 This text on recent developments in applied numerical analysis is designed for both students in mathematical and physical sciences and practicing scientists and engineers Many practical problems are illustrated while an accompanying CD ROM contains computer programs answers to exercises and some important tables

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