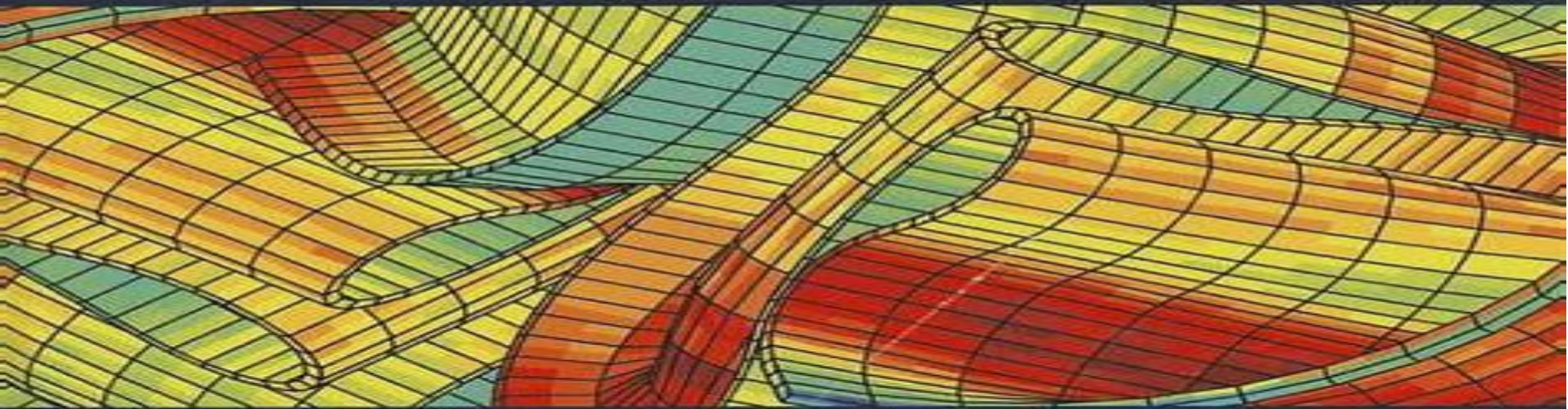


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Vladislav A. Yastrebov, 2013-02-13 Computational contact mechanics is a broad topic which brings together algorithmic geometrical optimization and numerical aspects for a robust fast and accurate treatment of contact problems This book covers all the basic ingredients of contact and computational contact mechanics from efficient contact detection algorithms and classical optimization methods to new developments in contact kinematics and resolution schemes for both sequential and parallel computer architectures The book is self contained and intended for people working on the implementation and improvement of contact algorithms in a finite element software Using a new tensor algebra the authors introduce some original notions in contact kinematics and extend the classical formulation of contact elements Some classical and new resolution methods for contact problems and associated ready to implement expressions are provided *Computational Contact Mechanics* Peter Wriggers, 2006-10-06 Contact mechanics has its application in many engineering problems No one can walk without frictional contact and no car would move for the same reason Hence contact mechanics has from an engineering point of view a long history beginning in ancient Egypt with the movement of large stone blocks over first experimental contributions from leading scientists like Leonardo da Vinci and Coulomb to today's computational methods In the past contact conditions were often modelled in engineering analysis by more simple boundary conditions since analytical solutions were not present for real world applications In such cases one investigated contact as a local problem using the stress and strain fields stemming from the analysis which was performed for the entire structure With the rapidly increasing power of modern computers more and more numerical simulations in engineering can include contact constraints directly which make the problems nonlinear This book is an account of the modern theory of nonlinear continuum mechanics and its application to contact problems as well as of modern solution techniques for contact problems using the finite element method The latter includes a variety of discretization techniques for small and large deformation contact Algorithms play another prominent role when robust and efficient techniques have to be designed for contact simulations Finally adaptive methods based on error controlled finite element analysis and mesh adaption techniques are of great interest for the reliable numerical solution of contact problems *Computational Methods in Contact Mechanics IV* L. Gaul, C. A. Brebbia, 1999

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Computational Methods in Contact Mechanics VI C. A. Brebbia, 2003

Modern engineering design has led to the realization of the importance of contact problems in many technological fields Including discussions of mechanical models numerical aspects experimental measurements and engineering applications as well as other topics related to the subject this volume features the proceedings of the Sixth International Conference on Computational Methods and Experimental Measurements in Contact Mechanics Particular emphasis is placed on the application of advanced theories while the contributors have also been encouraged to critically review existing ideas and to explore new research ideas Topics covered include multi boundary contact extrusion and forming process composite materials soil structure interaction computational methods crashworthiness impact and shock biomechanics experimental techniques computational methods versus experimental results and fracture fatigue and wear

IUTAM Symposium on Computational Methods in Contact Mechanics Peter Wriggers, Udo Nackenhorst, 2007-11-20 This book contains the proceedings of the IUTAM Symposium held in Hanover Germany in November 2006 Coverage includes new mathematical techniques new discretization techniques advanced applications of unilateral contact to masonry structures decohesion analysis and tractive rolling of tires The book provides a good overview of modern techniques and state of the art discretizations schemes applied in contact mechanics

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