

T.A. Laursen

Computational Contact and Impact Mechanics

Fundamentals of Modeling
Interfacial Phenomena in
Nonlinear Finite Element Analysis



Springer

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Georg J. Schmitz, Ulrich Prahl



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Analysis and Simulation of Contact Problems Peter Wriggers, Udo Nackenhorst, 2006-08-15 Contact mechanics was and is an important branch in mechanics which covers a broad field of theoretical numerical and experimental investigations In this carefully edited book the reader will obtain a state of the art overview on formulation mathematical analysis and numerical solution procedures of contact problems The contributions collected in this volume summarize the lectures presented during the 4th Contact Mechanics International symposium CMIS held in Hannover Germany 2005 by leading scientists in the area of contact mechanics

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researchers and graduate students who deal with particle models in areas such as fluid dynamics multi body engineering finite element methods the geosciences and multi scale physics Nonlinear Solid Mechanics Adnan

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Geomechanics from Micro to Macro Kenichi Soga,Krishna Kumar,Giovanna Biscontin,Matthew Kuo,2014-08-26

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Nackenhorst,2010-03-18 Understanding elastomer friction is essential for the development of tyres but also for sealings and other components Thus it is of great technical importance There are many aspects to modelling frictional processes in which an elastomer is interacting with a rough surface ranging from theoretical formulations leading to reduced and complex models via numerical simulation techniques to experimental investigations and validations

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