

# Pro Mechanica Contact Analysis

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Sciences Report - Danish Center for Applied Mathematics and Mechanics Proceedings of the Society for Experimental Stress Analysis International Conference on Experimental Mechanics Uncertainty in Mechanical Engineering II Paper Rapid Modeling and Analysis Tools: Evolution, Status, Needs and Directions *Peter Wriggers Jaroslav Haslinger Yen-Yih Ni Henry Haven Windsor Sean He American Society of Mechanical Engineers. Winter Annual Meeting Danish Center for Applied Mathematics and Mechanics Society for Experimental Stress Analysis Peter F. Pelz*

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

mechanics have played an important role in mathematics from infinitesimal calculus calculus of variations partial differential equations and numerical methods finite elements originally mechanics treated smooth objects technological progress has evoked the necessity to model and solve more complicated problems like unilateral contact and friction plasticity delamination and adhesion advanced materials etc the new tools include convex analysis differential calculus for convex functions and subgradients of convex functions and extensions for nonconvex problems nonsmooth mechanics is a relatively complex field and requires a good knowledge of mechanics and a good background in some parts of modern mathematics the present volume of lecture notes follows a very successful advanced school with the aim to cover as much as possible all these aspects therefore the contributions cover mechanical aspects as well as the mathematical and numerical treatment

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