

IUTAM Symposium on
Multiscale Problems in
Multibody System Contacts [
Proceedings of the IUTAM
Symposium held in Stuttgart,
Germany, February 20\201323,
2006 /

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Springer Netherlands, 2007

Monografía

The investigation of multiscale problems in multibody system contacts is a most interesting and timely topic which has been the subject of intensive research for more than one decade. While many questions have been answered and the mechanically sound description and simulation is increasingly applied in practical engineering problems, this IUTAM Symposium facilitated discussions between researchers active in the field and enabled us to review the state-of-the-art and to identify for the years to come the hot topics which require further efforts. It was especially useful to bring together scientists from closely related but traditionally distinct fields such as multibody system contact, molecular dynamics, finite element contact, collision detection or the mathematics of unilateral contact. It is observed that the once clear boundaries between these fields are blurring and an exchange of ideas will accelerate the development with mutual benefits. Multiscale problems occur very naturally in contact mechanics. Typically the contact forces and stresses are very high and they are transmitted within a very short period of time. This leads to questions, e.g. how the slow rigid body motion and the fast motion changes can be considered simultaneously or how interface effects couple to wave propagation and the large-scale motion. The purpose of the symposium was be to provide a basis for discussion and exchange of new concepts and ideas to scientists from all over Europe and the world. This proceedings volume summarizes contributions of many authors active in the field and gives insight in very different areas of this fascinating research

Título: IUTAM Symposium on Multiscale Problems in Multibody System Contacts Recurso electrónico-En línea] Proceedings of the IUTAM Symposium held in Stuttgart, Germany, February 20\201323, 2006 edited by Peter Eberhard

Editorial: Dordrecht Springer Netherlands 2007

Descripción física: XX, 338 p. digital

Tipo Audiovisual: Engineering Computer science-Mathematics Engineering mathematics Mechanics, applied Vibration Engineering Vibration, Dynamical Systems, Control Computational Mathematics and Numerical Analysis Appl.Mathematics/Computational Methods of Engineering Numerical and Computational Methods in Engineering Theoretical and Applied Mechanics

Mención de serie: IUTAM Bookseries 1

Documento fuente: Springer eBooks

Nota general: Engineering (Springer-11647)

Restricciones de acceso: Accesible sólo para usuarios de la UPV

Tipo recurso electrónico: Recurso a texto completo

Detalles del sistema: Forma de acceso: Web

ISBN: 9781402059810

Entidades: SpringerLink (Servicio en línea)

Enlace a formato físico adicional: Printed edition 9781402059803

Punto acceso adicional serie-Título: IUTAM Bookseries 1

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