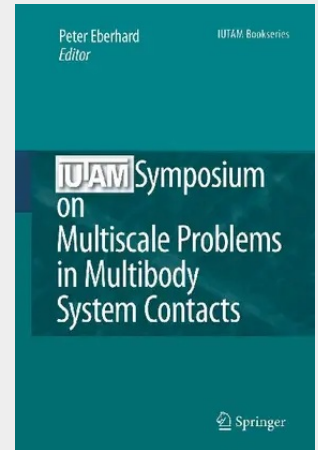


IUTAM Symposium on Multiscale Problems in Multibody System Contacts

The investigations of multiscale problems in multibody system contacts is a most interesting and timely topic which is the subject of intensive research for more than a decade. Many questions have already been answered and the mechanically sound description and simulation is increasingly being applied to practical engineering problems. The IUTAM Symposium on "Multiscale Problems in Multibody System Contacts" in Stuttgart, Germany which was held February 20-23, 2006 facilitated discussions between researchers active in the field and enabled us to review the current state of the subject, and to identify the important topics which require further effort. 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 with wave propagation and the large-scale motion. The purpose of the symposium was to provide a basis for discussion and exchange of new concepts and ideas between scientists from all over Europe and the world. Emphasis was placed also on sharing algorithms and concepts with young researchers who only recently entered the field of mechanical contacts.

The investigations of multiscale problems in multibody system contacts is a most interesting and timely topic which is the subject of intensive research for more than a decade. Many questions have already been answered and the mechanically sound description and simulation is increasingly being applied to practical engineering problems. The IUTAM Symposium on "Multiscale Problems in Multibody System Contacts" in Stuttgart, Germany which was held February 20-23, 2006 facilitated discussions between researchers active in the field and enabled us to review the current state of the subject, and to identify the important topics which require further effort. 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 with wave propagation and the large-scale motion. The purpose of the symposium was to provide a basis for discussion and exchange of new concepts and ideas between scientists from all over Europe and the world. Emphasis was placed also on sharing algorithms and concepts with young researchers who only recently entered the field of mechanical contacts.



160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789401776561

Medium: Buch

ISBN: 978-94-017-7656-1

Verlag: Springer

Erscheinungstermin: 23.08.2016

Sprache(n): Englisch

Auflage: Softcover Nachdruck of the original 1. Auflage 2007

Serie: IUTAM Bookseries

Produktform: Kartoniert

Gewicht: 546 g

Seiten: 339

Format (B x H): 155 x 235 mm

