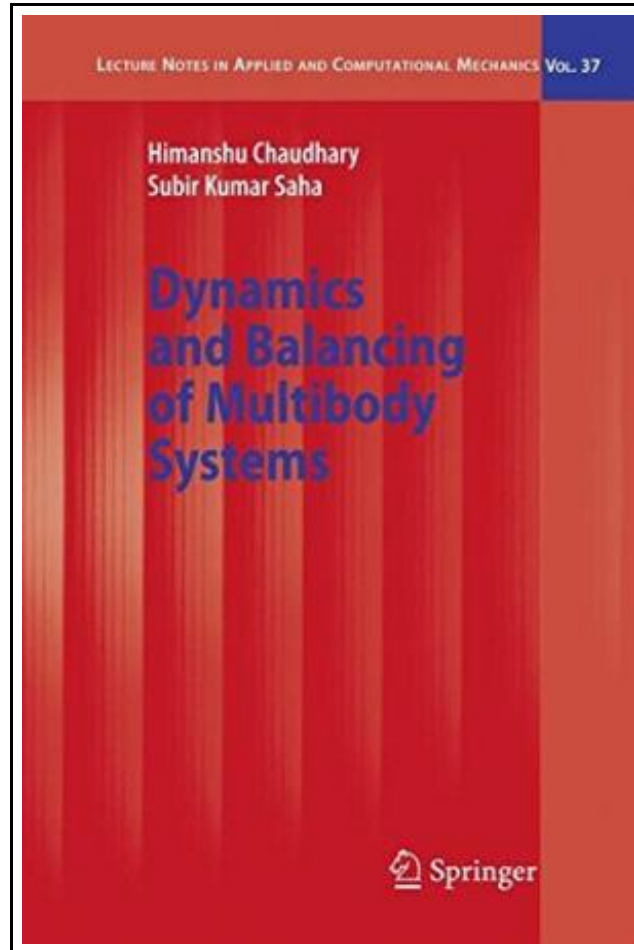


# Dynamics and Balancing of Multibody Systems



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## ***Reviews***

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***(Lorenz Vandervort)***

## DYNAMICS AND BALANCING OF MULTIBODY SYSTEMS



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Springer-Verlag GmbH Okt 2008, 2008. Buch. Book Condition: Neu. 254x155x20 mm. Neuware - This book has evolved from the passionate desire of the authors in using the modern concepts of multibody dynamics for the design improvement of the machineries used in the rural sectors of India and The World. In this connection, the first author took up his doctoral research in 2003 whose findings have resulted in this book. It is expected that such developments will lead to a new research direction MuDRA, an acronym given by the authors to Multibody Dynamics for Rural Applications. The way Mu- DRA is pronounced it means money in many Indian languages. It is hoped that practicing MuDRA will save or generate money for the rural people either by saving energy consumption of their machines or making their products cheaper to manufacture, hence, generating more money for their livelihood. In this book, the initial focus was to improve the dynamic behavior of carpet scrapping machines used to wash newly woven hand-knotted c- pets of India. However, the concepts and methodologies presented in the book are equally applicable to non-rural machineries, be they robots or - tomobiles or something else. The dynamic modeling used in this book to compute the inertia-induced and constraint forces for the carpet scrapping machine is based on the concept of the decoupled natural orthogonal c- plement (DeNOC) matrices. The concept is originally proposed by the second author for the dynamics modeling and simulation of serial and - rallel-type multibody systems, e. g. 176 pp. Englisch.



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