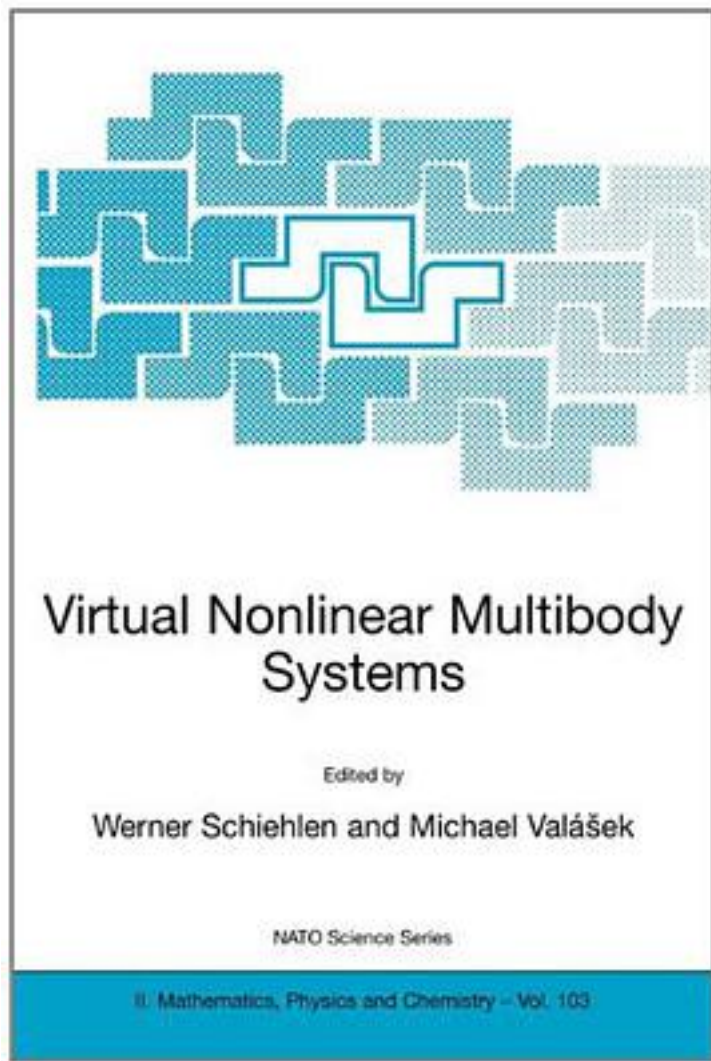


Virtual Nonlinear Multibody Systems



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The four parts of the book - Nonlinear multibody dynamics, Virtual multibody systems, Control design and Mechatronics, and Challenging applications - describe current status of multibody dynamics, with special emphasis on nonlinear systems, virtual reality, and control designs required in mechanics and other applications. Other topics include: nonholonomic systems, flexible multibody systems, contact, impact and collision, numerical methods of differential-algebraic equations, simulation approaches, virtual modelling, mechatronic design, control, biomechanics, space structures and vehicle dynamics. Readership: This comprehensive summary of current work is suitable for a wide range of interests, from advanced student to researcher.

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