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Springer Science & Business Media Thank you for opening the second edition of this monograph, which is devoted to the study of a class of nonsmooth dynamical systems of the general form: $\ddot{x} = g(x,u)$ (0. 1) $f(x, t) \geq 0$ where $x \in \mathbb{R}^n$ is the system's state vector, $u \in \mathbb{R}^m$ is the vector of inputs, and the function $f(-, .)$ represents a unilateral constraint that is imposed on the state. More precisely, we shall restrict ourselves to a subclass of such systems, namely mechanical systems subject to unilateral constraints on the position, whose dynamical equations may be in a first instance written as: $\ddot{q} = g(q,\dot{q},u)$ (0. 2) $f(q, t) \geq 0$ where $q \in \mathbb{R}^n$ is the vector of generalized coordinates of the system and u is an input (or controller) that generally involves a state feedback loop, i. e. $u = u(q, \dot{q}, t, z)$, with $z = Z(z, q, \dot{q}, t)$ when the controller is a dynamic state feedback. Mechanical systems composed of rigid bodies interacting fall into this subclass. A general property of systems as in (0. 1) and (0. 2) is that their solutions are nonsmooth (with respect to time): Nonsmoothness arises primarily from the occurrence of impacts (or collisions, or percussions) in the dynamical behaviour, when the trajectories attain the surface $f(x, t) = 0$. They are necessary to keep the trajectories within the subspace $= \{x : f(x, t) \geq 0\}$ of the system's state space.

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STATICS AND DYNAMICS

Routledge This is the more practical approach to engineering mechanics that deals mainly with two-dimensional problems, since these comprise the great majority of engineering situations and are the necessary foundation for good design practice. The format developed for this textbook, moreover, has been devised to benefit from contemporary ideas of problem solving as an educational tool. In both areas dealing with statics and dynamics, theory is held apart from applications, so that practical engineering problems, which make use of basic theories in various combinations, can be used to reinforce theory and demonstrate the workings of static and dynamic engineering situations. In essence a traditional approach, this book makes use of two-dimensional engineering drawings rather than pictorial representations. Word problems are included in the latter chapters to encourage the student's ability to use verbal and graphic skills interchangeably. SI units are employed throughout the text. This concise and economical presentation of engineering mechanics has been classroom tested and should prove to be a lively and challenging basic textbook for two one-semester courses for students in mechanical and civil engineering. Applied Engineering Mechanics: Statics and Dynamics is equally suitable for students in the second or third year of four-year engineering technology programs.

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PRINCIPLES OF BIOMECHANICS

CRC Press Research and study in biomechanics has grown dramatically in recent years, to the extent that students, researchers, and practitioners in biomechanics now outnumber those working in the underlying discipline of mechanics itself. Filling a void in the current literature on this specialized niche, Principles of Biomechanics provides readers with a so