

1. Record Nr.	UNINA9910480265103321
Titolo	Dynamics and control of multibody systems : proceedings of the AMS-IMS-SIAM Joint Summer Research Conference held July 30-August 5, 1988, with support from the National Science Foundation / / J.E. Marsden, P.S. Krishnaprasad, and J.C. Simo, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [1989] ©1989
ISBN	0-8218-7685-6 0-8218-5430-5
Descrizione fisica	1 online resource (488 p.)
Collana	Contemporary Mathematics, , 0271-432 ; ; volume 97
Disciplina	629.8/312
Soggetti	Control theory Multibody systems Dynamics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The AMS-IMS-SIAM Joint Summer Research Conference in the Mathematical Sciences on Control Theory and Multibody Systems was held at Bowdoin College, Brunswick, Maine from July 30 to August 5, 1988 ...": Title page verso.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Foreword""; ""Introduction""; ""An enumerative theory of equilibrium rotations for planar kinematic chains""; ""Stability and stiffening of driven and free planar rotating beams""; ""Characterization of Hamiltonian input-output systems""; ""Robustness of distributed parameter systems""; ""On the relationship between discrete-time optimal control and recursive dynamics for elastic multibody chains""; ""Some solvable stochastic control problems in compact symmetric spaces of rank one""; ""Slew-induced deformation shaping on slow integral manifolds"" ""Feedback equivalence and symmetries of Brunowski normal forms"" The application of total energy as a Lyapunov function for mechanical control systems""; ""Classical adiabatic angles for slowly moving mechanical systems""; ""Eulerian many-body problems""; ""Morse theory

for a model space structure"; "A unified approach for the control of multifingered robot hands"; "Tethered satellite system stability"; "Quantum control theory I"; "Cartan-Hannay-Berry phases and symmetry"; "Block diagonalization and the energy-momentum method"

"The dynamics of two coupled rigid bodies in three space"

Nonsmooth optimization algorithms for the design of controlled flexible structures"; "Stability analysis of a rigid body with attached geometrically nonlinear rod by the energy-momentum method";

"Controllability of Poisson control systems with symmetries"; "Chaos in a rapidly forced pendulum equation"; "Accurate time critical control of many body systems"; "Hamiltonian control systems: decomposition and clamped dynamics"; "Graph-theoretical methods in multibody dynamics"
