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Mechanics and Dynamical Systems with Mathematica® Applied Mechanics Reviews Hamiltonian Mechanical Systems and Geometric Quantization Solution of Problems in Mechanics of Machines Solutions Manual to Accompany Physical Chemistry Elasticity Engineering Mechanics, Dynamics AutoCAD AME Solution Manual 800 Solved Problems in Vector Mechanics for Engineers Physical Review English Mechanic and Mirror of Science Engineering Mechanics Introductory Course in Differential Equations English Mechanic and World of Science English Mechanic and Mirror of Science and Art Practical Guide to Photographic & Photo–mechanical Printing "Work" Handbooks ("Amateur Mechanic & Work" Handbooks. Cassell's "Work" Handbooks) ... Edited by P.N. Hasluck International Series of Monographs in Natural Philosophy "The" Physical Review Materials Research and Standards *Nicola Bellomo Mircea Puta S. Anvoner J. Philip Bromberg Martin H. Sadd Joseph F. Shelley Ted Saufley Joseph F. Shelley Daniel Alexander Murray William Kinnimond*

Burton Paul Nooncree Hasluck

modeling and applied mathematics modeling the behavior of real physical systems by suitable evolution equa tions is a relevant maybe the fundamental aspect of the interactions be tween mathematics and applied sciences modeling is however only the first step toward the mathematical description and simulation of systems belonging to real world indeed once the evolution equation is proposed one has to deal with mathematical problems and develop suitable simula tions to provide the description of the real system according to the model within this framework one has an evolution equation and the re lated mathematical problems obtained by adding all necessary conditions for their solution then a qualitative analysis should be developed this means proof of existence of solutions and analysis of their qualitative be havior asymptotic analysis may include a detailed description of stability properties quantitative analysis based upon the application ofsuitable methods and algorithms for the solution of problems ends up with the simulation that is the representation of the dependent variable versus the independent one the information obtained by the model has to be compared with those deriving from the experimental observation of the real system this comparison may finally lead to the validation of the model followed by its application and maybe further generalization

this volume presents various aspects of the geometry of symplectic and poisson manifolds and applications in hamiltonian mechanics and geometric quantization are indicated chapter 1 presents some general facts about symplectic vector space symplectic manifolds and symplectic reduction chapter 2 deals with the study of hamiltonian mechanics chapter 3 considers some standard facts concerning lie groups and algebras which lead to the theory of momentum mappings and the marsden weinstein reduction chapters 4 and 5 consider the theory and the stability of equilibrium solutions of hamilton poisson mechanical systems chapters 6 and 7 are devoted to the theory of geometric quantization this leads in chapter 8 to topics such as foliated cohomology the theory of the dolbeault kostant complex and their applications a discussion of the relation between geometric quantization and the marsden weinstein reduction is presented in chapter 9 the final chapter considers extending the theory of geometric quantization to poisson manifolds via the theory of symplectic groupoids each chapter concludes with problems and solutions many of which present significant applications and in some

cases major theorems for graduate students and researchers whose interests and work involve symplectic geometry and hamiltonian mechanics

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