



Nonlinear Dynamics of Structures

By Sergio Oller

Berlin Springer Jul 2014, 2014. Buch. Book Condition: Neu. 245x170x15 mm. Neuware - This book lays the foundation of knowledge that will allow a better understanding of nonlinear phenomena that occur in structural dynamics. This work is intended for graduate engineering students who want to expand their knowledge on the dynamic behavior of structures, specifically in the nonlinear field, by presenting the basis of dynamic balance in non_linear behavior structures due to the material and kinematics mechanical effects. Particularly, this publication shows the solution of the equation of dynamic equilibrium for structure with nonlinear time_independent materials (plasticity, damage and frequencies evolution), as well as those time dependent non_linear behavior materials (viscoelasticity and viscoplasticity). The convergence conditions for the non_linear dynamic structure solution are studied and the theoretical concepts and its programming algorithms are presented. 192 pp. Englisch.

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