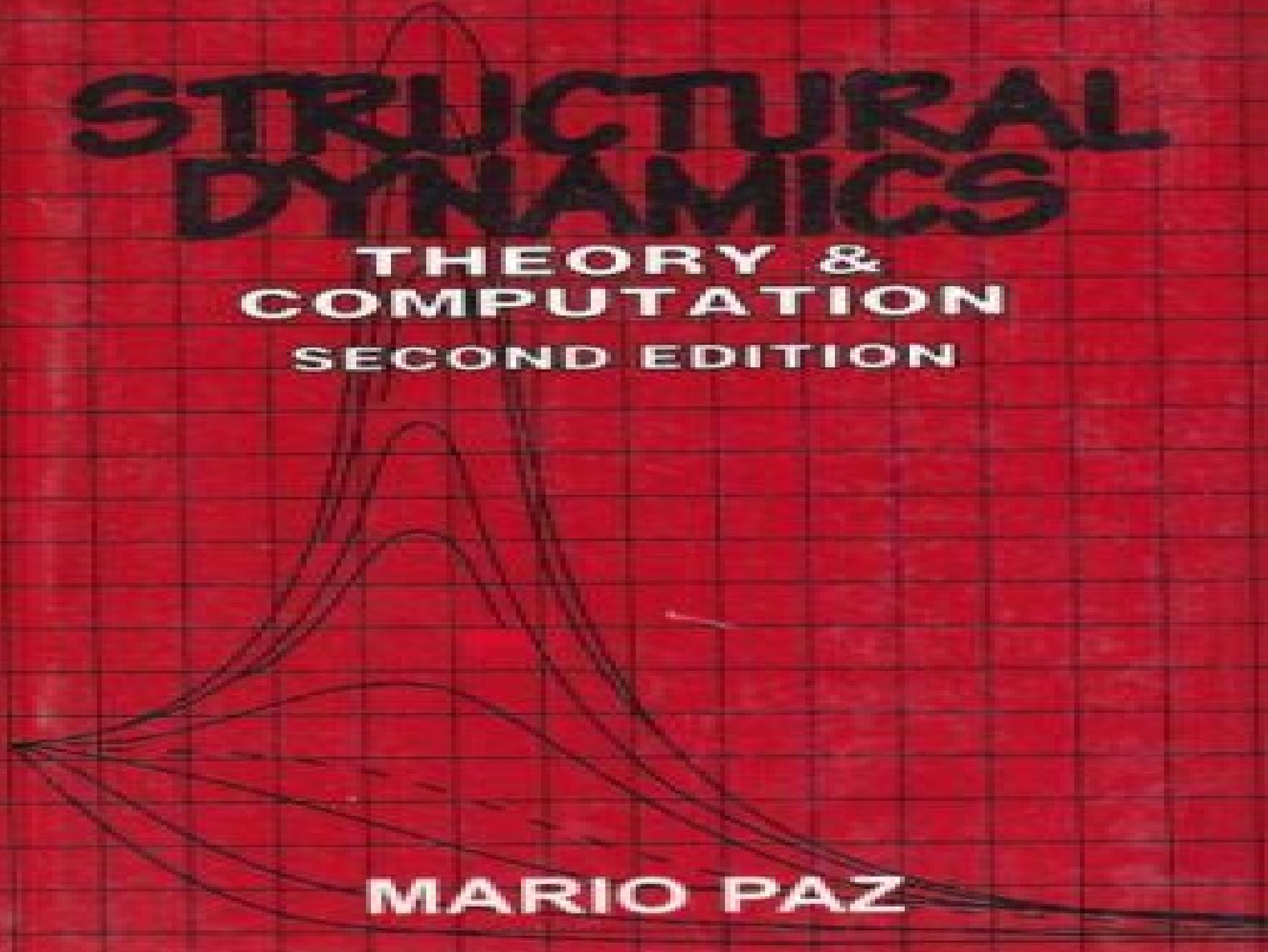


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MARIO PAZ

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**Structural Dynamics** Mario Paz, 1985 Revised and updated text for advanced undergraduate or beginning graduate students in engineering treats the analysis and design of structures subjected to dynamic forces or earthquake excitations This edition adds three new chapters on earthquake resistant design of buildings as well as expanded computer programs rewritten in BASIC for implementation on microcomputers Annotation copyrighted by Book News Inc Portland OR

**The Finite Element Method for Initial Value Problems** Karan S. Surana, J. N. Reddy, 2017-10-17 Unlike most finite element books that cover time dependent processes IVPs in a cursory manner The Finite Element Method for Initial Value Problems Mathematics and Computations focuses on the mathematical details as well as applications of space time coupled and space time decoupled finite element methods for IVPs Space time operator classification space time methods of approximation and space time calculus of variations are used to establish unconditional stability of space time methods during the evolution Space time decoupled methods are also presented with the same rigor Stability of space time decoupled methods time integration of ODEs including the finite element method in time are presented in detail with applications Modal basis normal mode synthesis techniques error estimation and a posteriori error computations for space time coupled as well as space time decoupled methods are presented This book is aimed at a second semester graduate level

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