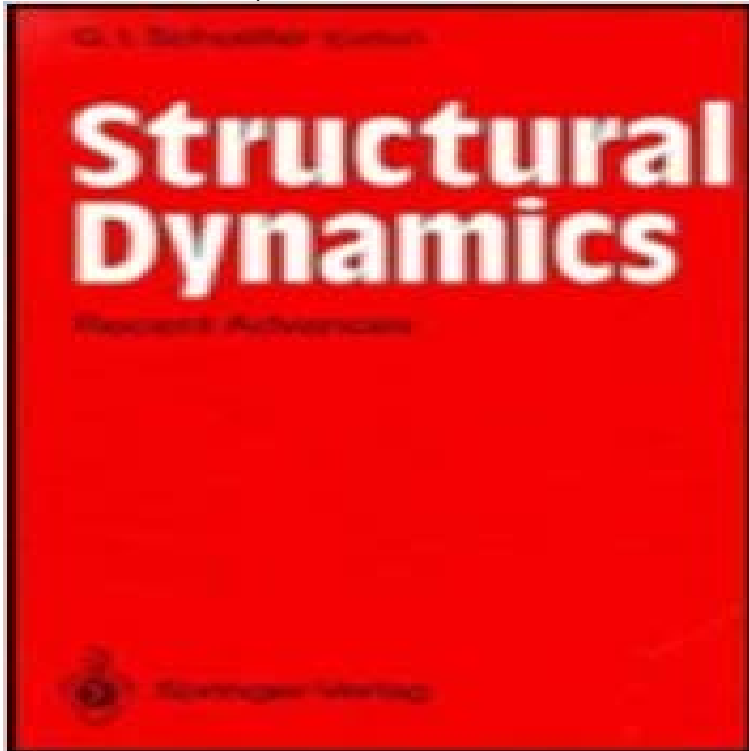


## Structural Dynamics: Recent Advances



This book contains some new developments in the area of Structural Dynamics. Its contents cover both theoretical aspects as well as practical applications and hence can be utilized by students, researchers, as well as practising engineers. The volume concentrates on four major areas, i.e. on load modeling with particular emphasis on earthquake and windloading, structural response analysis, computational reliability procedures, and finally on practical application. This includes e.g. the dynamic analysis of liquid storage tanks under earthquake excitation, the dynamic analysis of the blast procedure for tunneling, the design and analysis of tall slender industrial chimneys under wind loading as well as the analysis of containment structures of nuclear power plants under earthquake conditions. It is shown, that the theoretical procedures as described in the previous chapters may be readily applied to practical problems.

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