



# **Theory of Beam-Columns, Volume 2: Space Behavior and Design (J. Ross Publishing Classics)**

*Wai-Fah Chen, Toshio Atsuta*

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# Theory of Beam-Columns, Volume 2: Space Behavior and Design (J. Ross Publishing Classics)

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Chen and Atsuta have extended their comprehensive work on the analysis of beam-columns into three dimensions in this second volume. They have systematically developed the full theory for steel and concrete elements up to their ultimate limit states. The theoretical refinements to cover the residual stresses, plasticity, local and overall buckling and their interaction are well set out.

-Jonathan Wood in New Civil Engineer

This second volume of a two-volume work discusses systematically the complete theory of space beam-columns. The book presents principles and methods of analysis for beam-columns in space, which should be the basis for structural design, and shows how these theories are applied for the solution of practical design problems. With the importance of the role of beam-columns in modern structures, this set of books will be invaluable to structural engineers, designers, specification writing bodies, and researchers.

An unabridged J. Ross Publishing republication of the edition published by McGraw-Hill, Inc., New York, 1977, 752pp.

## Key Features

- Provides differential equations of beam-columns in space that are derived from general forms and are given in their corresponding elastic solutions
- Covers the plastic behavior of cross sections, strain hardening, elastic unloadings, and various numerical solution methods
- Includes design problems of plastic beam-columns in space that are solved applying various numerical methods: approximate deflection method, influence coefficient method, and others

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