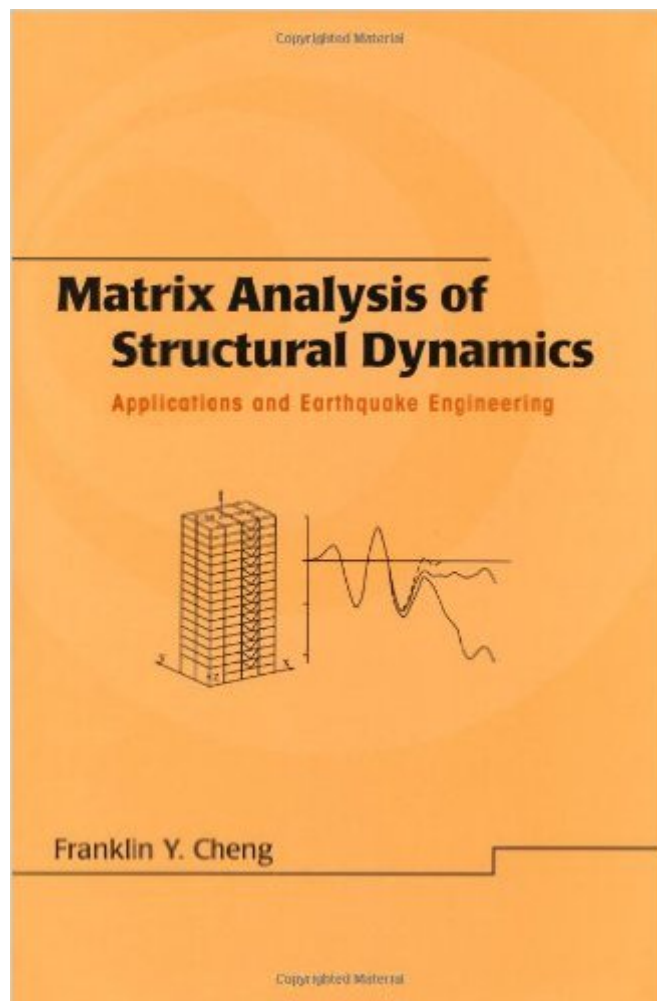


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# Matrix Analysis Of Structural Dynamics: Applications And Earthquake Engineering (Civil And Environmental Engineering)



## Synopsis

Uses state-of-the-art computer technology to formulate displacement method with matrix algebra. Facilitates analysis of structural dynamics and applications to earthquake engineering and UBC and IBC seismic building codes.

## Book Information

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Average Customer Review: 4.0 out of 5 stars Â Â See all reviews Â (1 customer review)

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## Customer Reviews

Cheng's book is well suited for a mechanical or civil engineer who is already well versed in the basics. He then takes you through a comprehensive use of matrices to solve systems of equations that define a physical problem. It starts with the simple cases of free and forced vibrations, combined with whether they are damped or undamped. This segues into the finding of eigensolutions that characterise the system. A very important and practical case of designing structures to handle earthquakes is treated later in the book. Methods developed earlier in the text are suitably applied here.

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