

Theories and Applications of Plate Analysis: Classical Numerical and Engineering Methods

By Rudolph Szilard

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This book by a renowned structural engineer offers comprehensive coverage of both static and dynamic analysis of plate behavior, including classical, numerical, and engineering solutions. It contains more than 100 worked examples showing step by step how the various types of analysis are performed.

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Theories and Applications of Plate Analysis: Classical Numerical and Engineering Methods By Rudolph Szilard Bibliography

- Sales Rank: #4159752 in Books
- Published on: 2004-01-02
- Original language: English
- Number of items: 1
- Dimensions: 9.60" h x 2.40" w x 6.50" l, 3.60 pounds
- Binding: Hardcover
- 1056 pages

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Editorial Review

Review
"...clear and given in an understandable manner...recommended to practicing engineers..." (*Zeitschrift Fur Angewandte Mathematik Und Mechanik,* 2006)

From the Back Cover
A comprehensive reference for plate behavior analysis

Theories and Applications of Plate Analysis is a unique, comprehensive volume covering static, dynamic and elastic stability analysis of plates. This valuable book addresses a large spectrum of plate problems and their analytical, numerical, computer-aided and engineering solution techniques. This book includes more than 140 descriptive, worked-out examples, making this text and reference book extremely useful in academic and professional environments.

Utilizing SI units throughout, all mathematical tools are clearly and systematically developed within the book (with an understanding of differential-integral calculus and matrix algebra) to work with such topics as:

- Classical, numerical, computer-aided and engineering solution techniques
- Linear, nonlinear and moderately thick plate problems
- Finite difference and gridwork methods
- Finite element and finite strip methods
- Computer-based plate analysis
- Yield-line methods
- Free and forced vibrations of plates
- Elastic stability analysis

Complete with a helpful CD-ROM containing 170 readily usable plate formulas and a user-friendly finite element program system, WinPlatePrimer, for static and dynamic analysis of real-life plate problems, Theories and Applications of Plate Analysis is a handy, must-have book for practicing engineers and graduate students in the fields of civil, mechanical, aeronautical, marine, architectural and mining engineering.

About the Author
RUDOLPH SZILARD, Dr.-ING., P.E., is Emeritus Professor of Structural Mechanics at the University of Hawaii, and retired chairman of the Structural Mechanics Department at the University of Dortmund, Germany. His long and illustrious career in both academia and in the professional practice of engineering includes serving as a senior structural engineer with the noted firm of Ammann and Whitney, as well as authoring numerous scientific papers and eight books on structural mechanics. Dr. Szilard was the recipient of a "Senior Fellowship Award" by the A. von Humboldt Foundation, Germany.

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