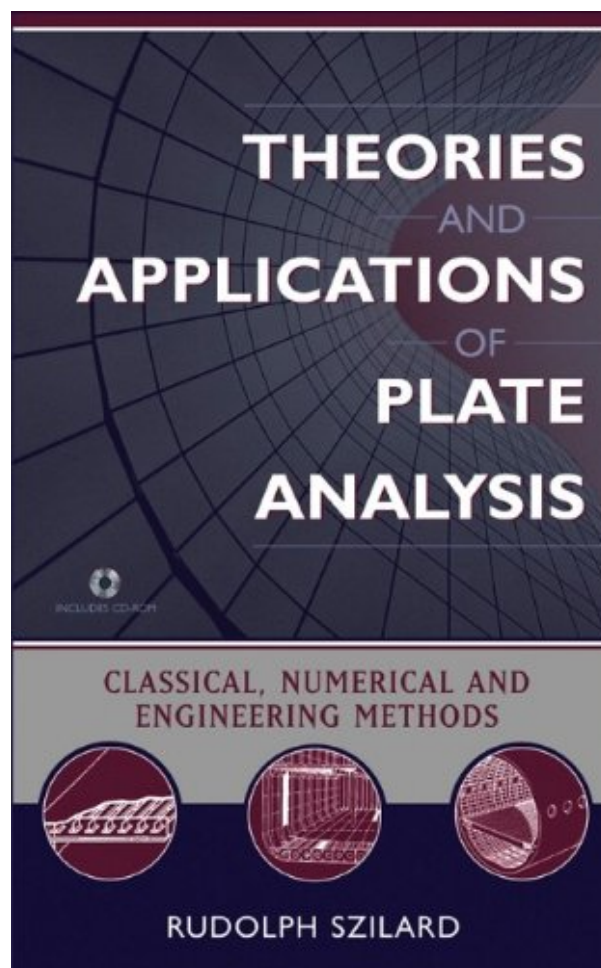
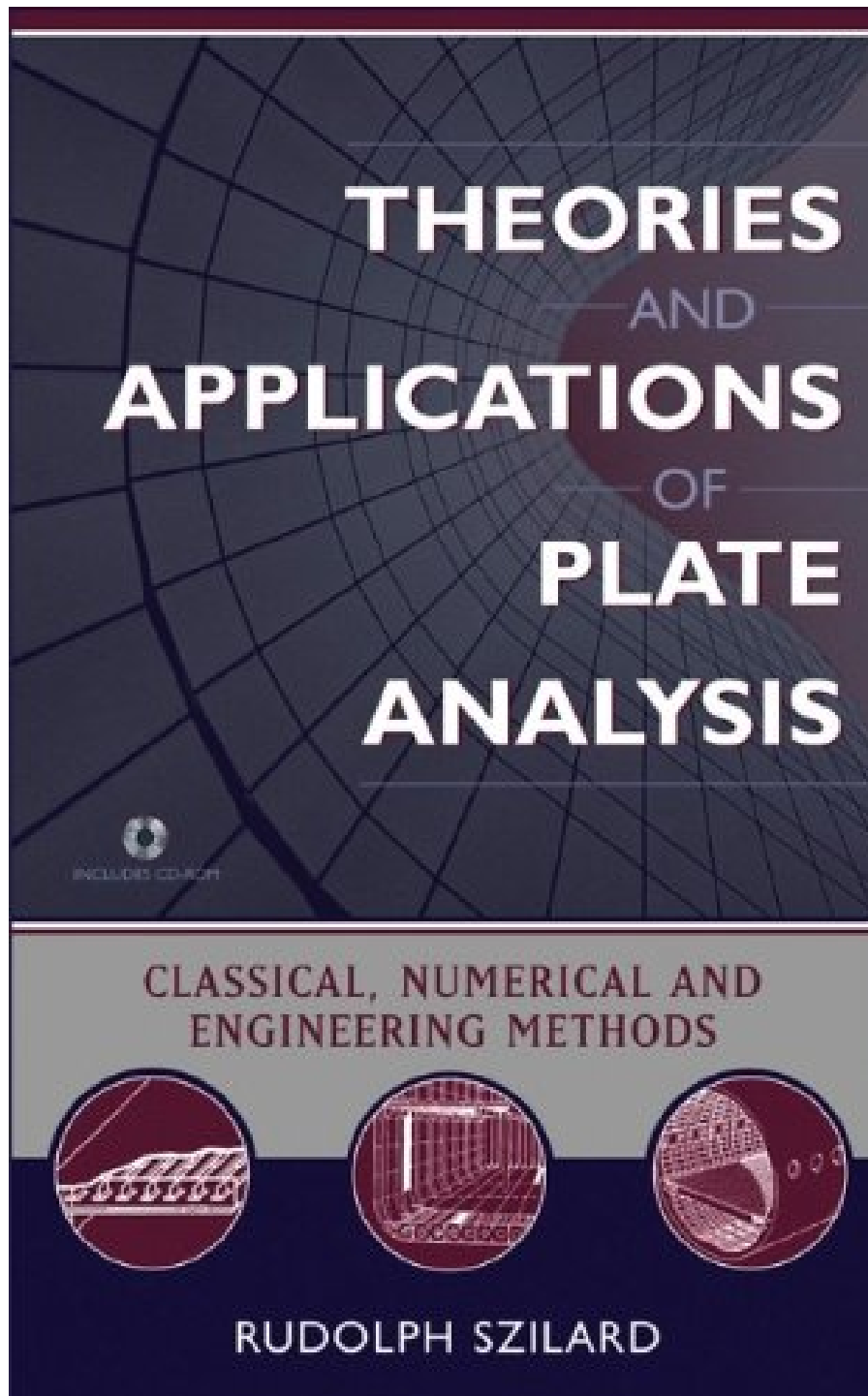


THEORIES AND APPLICATIONS OF PLATE ANALYSIS: CLASSICAL NUMERICAL AND ENGINEERING METHODS BY RUDOLPH SZILARD



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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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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.

- Sales Rank: #3830966 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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2 of 2 people found the following review helpful.

Review of the titled "Theory and application of plate analysis -Classical and Numerial Methods "- by Rudolph Szilard

By Indrajit Chowdhury

Author has collected a significant array of various plate problems and presented them in one literature which is surely a very commnedable effort.

Engineers and Scientists working in the area of various plate problems would find this literature of immense help, wherein they will not have to rummage through various publications to find out typical solution to the problem he is looking for.

However it is felt that some of the basic derivations(specially the classical part) are a bit too brief and further elaboration could have benefitted specially those, who are new to the topic and not so comfortable with fourth order differential equations related to the plate.

An elaboration(even a brief one) on Dynamic response of plates on elastic foundations and some of the work carried out in this area by Thomson and Kobori, G.Warburton to name a few would have made the book more complete.

Over all a very good monograph as a quick reference to plate problems for both practicing engineers and researchers.

2 of 2 people found the following review helpful.

Excellent Text & Reference Book

By Ranrunr

A most comprehensive book (text and reference) dealing with all aspects of plate analysis that can be used to solve practical plate problems in civil, structural, architectural, mechanical, aerospace, marine and mining engineering. Easy to read with many easy to follow examples. Math knowledge is relatively modest, only a familiarity with algebra, calculus & matrix operations is required. Every solution and technique presented is critically evaluated for efficiency and accuracy and compared to other methods. The handy accompanying CD has 170 plate formulas and a finite element model for static and dynamic analysis of moderately large plate problems. This is a must for your reference library. Take advantage of Dr Szilard's vast knowledge and wonderful writing style. This book should be considered for using as a primary text for college engineering classes.

1 of 1 people found the following review helpful.

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

By RWS

Excellent for every person involved with analysis, applications and/or theory of plates - not necessary for structural in civil , also applied to frame on off road equipment.

Extremely well written. RECOMMENDED!

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

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