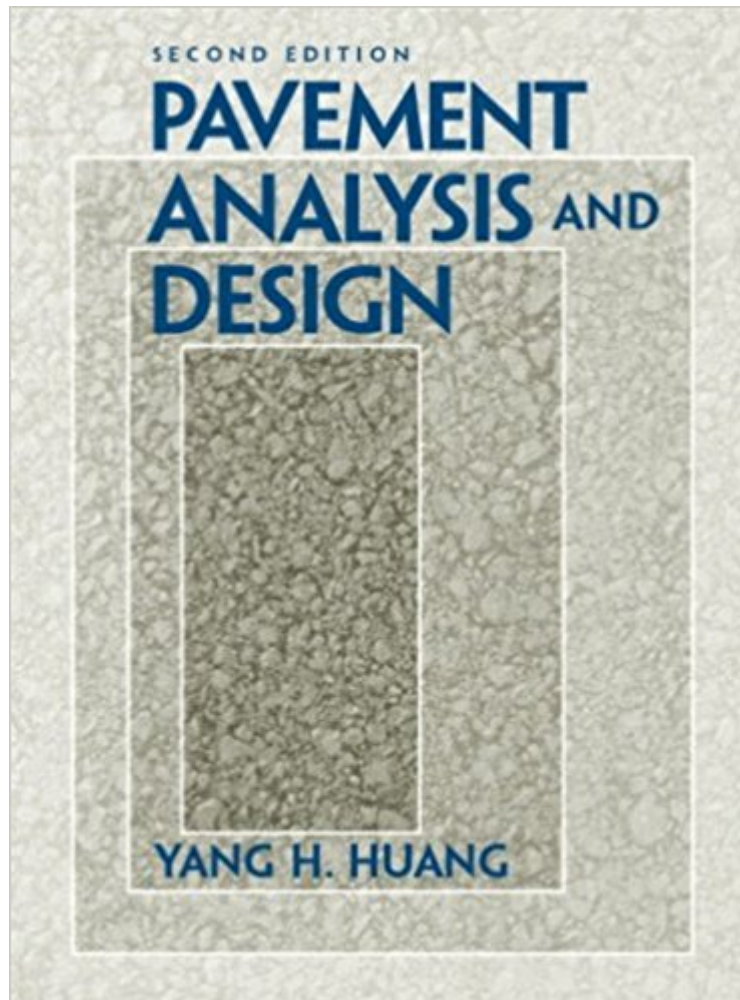




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# Pavement Analysis And Design (2nd Edition)



## Synopsis

This up-to-date book covers both theoretical and practical aspects of pavement analysis and design. It includes some of the latest developments in the field, and some very useful computer software—developed by the author—with detailed instructions. Specific chapter topics include stresses and strains in flexible pavements, stresses and deflections in rigid pavements, traffic loading and volume, material characterization, drainage design, pavement performance, reliability, flexible pavement design, rigid pavement design, design of overlays, theory of viscoelasticity, theory of elastic layer systems, Superpave, pavement management systems, and an introduction to the 2002 Pavement Design Guide. For practicing engineers in the design of pavements and raft foundations.

## Book Information

Hardcover: 792 pages

Publisher: Pearson; 2 edition (August 18, 2003)

Language: English

ISBN-10: 0131424734

ISBN-13: 978-0131424739

Product Dimensions: 7.3 x 1.8 x 9.4 inches

Shipping Weight: 2.8 pounds

Average Customer Review: 3.8 out of 5 stars 19 customer reviews

Best Sellers Rank: #326,137 in Books (See Top 100 in Books) #34 in [Books > Engineering & Transportation > Automotive > Repair & Maintenance > Vehicle Design & Construction](#) #64 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Transportation](#) #167 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural](#)

## Customer Reviews

This text/software package explores the structural analysis and design of highway pavements -- focusing on the mechanistic-empirical design procedures rather than the purely empirical methods. --This text refers to an alternate Hardcover edition.

Focusing on mechanistic-empirical design procedures, this volume presents a comprehensive exploration of the structural analysis and design of highway pavements. Although the current Pavement Design Guide adopted by the American Association of State Highway and Transportation

Officials (AASHTO) is mainly empirical, a new guide based on mechanistic-empirical procedures will be published and implemented in the very near future. This book will provide the fundamental background to a full understanding of these sophisticated procedures. The accompanying CD contains a Windows software called KENPAVE, which can be run on any personal computer with Windows 95 or higher. In addition to several input and graphics programs, KENPAVE consists of two well-known computer programs for pavement analysis and design: The KENLAYER program for flexible pavements can be applied to a multilayered system under stationary or moving multiple wheel loads with each layer being linear elastic, nonlinear elastic, or viscoelastic. The KENSLABS program for rigid pavements can be applied to multiple slabs fully or partially supported on a liquid, solid, or layered foundation with moment or shear transfer across joints. Both programs can perform damage analysis by dividing a year into a number of periods, each subjected to different combinations of single and multiple-axle loads. Structural and geotechnical engineers can also benefit from this book by applying KENPAVE to the design of raft foundations. In addition to vertical loads, the foundation slab can be subjected to moments in two directions, such as those imposed by retaining walls, and the contours of positive and negative moments can be plotted. This information will be useful to determine the length and amount of reinforcements required.

Pages are all crisp. Like the book sat in a puddle of water for a semester.

Best book on Pavement design I have yet seen.

This is probably the best, most comprehensive textbook on pavement analysis and design available currently. It is very thorough, and I highly recommend it for both students and practicing professionals.

So what I can say about this book? It's simply the best. From very basic to advance pavement design, this book is full of theoretical concerns about the pavement design as well as empirical methods for special pavements. It also includes a software to simulate a road different layers behaviour when loads applied on top. Very useful and, in my opinion, a must-have for those engineers who work in this business.

It is a very detailed text-book containing full description of the methods used. It distributes also the KENPAVE software which is the State-of-the-Art software for Pavements. It also cites and criticizes

the Westergaard's solution as it has been reconsidered by Ioannides et al. It is absolutely necessary for the engineers occupying with science and practice.

Even it is not up to date (the new ME-PDG), but it can be a good reference, but it contains detailed historical information and some methodologies that no longer in use, it is better for undergraduate students.

O livro faz uma abordagem de forma racional e científica dos métodos mecânicos para dimensionamento e análise de pavimentos flexíveis e rígidos, representando um guia para o engenheiro estrutural que pensa em abordar os pavimentos pelo método mecânico. Ainda é um guia para uso dos softwares Kenlayer e Kenlabs, fundamentais para análise de tensões e deslocamentos em pavimentos de concreto e asfalto. É o livro de consultas fundamental nessa área, sem a menor dúvida. Uma obra indispensável.

Solid book 2 weeks in. We will see as the semester progresses.

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