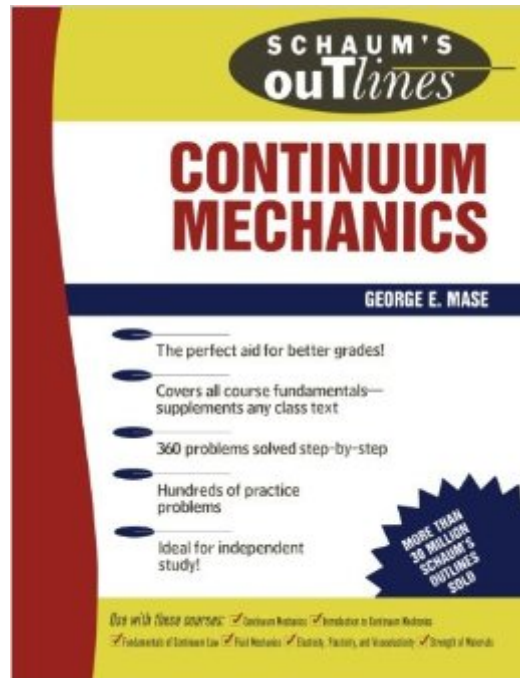


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# Schaum's Outline Of Continuum Mechanics



## Synopsis

For comprehensive and comprehensible coverage of both theory and real-world applications, you can't find a better study guide than Schaum's Outline of Continuum Mechanics. It gives you everything you need to get ready for tests and earn better grades! You get plenty of worked problems solved for you step by step along with hundreds of practice problems. From the mathematical foundations to fluid mechanics and viscoelasticity, this guide covers all the fundamentals plus it shows you how theory is applied. This is the study guide to choose if you want to ace continuum mechanics!

## Book Information

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## Customer Reviews

Like most other Schaum's series, the theory sections are condensed, which makes the part more like a compendium of continuum mechanics. The theoretical sections are thus good for a quick review of the material but not a good resource for "learning" the material. The biggest advantage of the book is that it provides an inexpensive summary of continuum mechanics. The downside of the book is that the solved problems are not similar to the type of problems one confronts in a typical continuum course. In most cases several problems (statement together with the solution) are presented in a single page, which shows that each problem has been solved in 1-5 lines. I personally don't like most of the problems presented here; however, the problems could be useful for warming up. A better book is "Introduction to the Mechanics of a Continuous Medium" by Malvern, which is the best I've seen in explaining the intricacies of the theory. Another good

complement is Holzapfel's "Nonlinear Solid Mechanics: A Continuum Approach for Engineering", which contains both the theory AND some solved sample problems.

The problems in this book were very helpful to me in my applied continuum mechanics course, but they tended more towards the theoretical side. A good purchase for students and researchers dealing with solid mechanics and mechanics of materials.

Better than most professors, but concepts are still difficult to grasp. Have you ever had one of those tennis ball machines go crazy at you? That is how continuum mechanics is, you constantly have things hurled in your direction and you don't know how to stop them. The concepts are very difficult to understand since I'm sure many professors have a hard time understanding the course material itself. The Schaum's outline helps very much in the sense that it slows down the hurling of material and it explains where many equations are derived from. This book stands out above the rest of continuum mechanics books in the sense that it offers solved problems, which is rare for such a theoretical class.

This is a great text to use as a quick reference for most things continuum mechanics- Mase does a very respectable job at summarizing this beautiful subject. I think this would be a great supplement to a CM course, although the notation strays from what is popular today. The power of this book is that almost everything appears in both indicial notation and Gibbs (boldface) notation. This makes it easy to follow along even if you aren't yet comfortable with the indicial notation. The worked problems are all very brief- they demonstrate in perhaps the simplest manner possible the basics of mechanics. Like every other CM book out there, this one has a few things that are done exceptionally well, and a few things that fall short. I will continue my search for the best CM book in print...Across 200 some pages, the topics include math prelims; stress; deformation; kinematics; balance laws; linear elasticity; linear fluids; classical plasticity; classical viscoelasticity. The figures are clear and illustrate the points being made. I don't know if I got a bad printing, but the superposed dots used to indicate time derivatives didn't appear in my copy.

I'm a proud owner of many other great Schaums outlines like "Differential Geometry", "Topology", "Complex Variables" ... etc. But I do not find this text useful in my studies. Unlike my other Schaums outlines, I still seem to prefer regular text books over this version of Continuum

Worst book if u are looking for continuum Solved examples. Concept is okay.. but the solved examples test ur patience. No problem is solved in detail. In every problem you are asked to refer to atleast two to three previous pages or some equations twenty pages behind. You end up throwing it aside by the time u try to solve one chapter

Good reference. Only source I've found that has solved practice problems

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