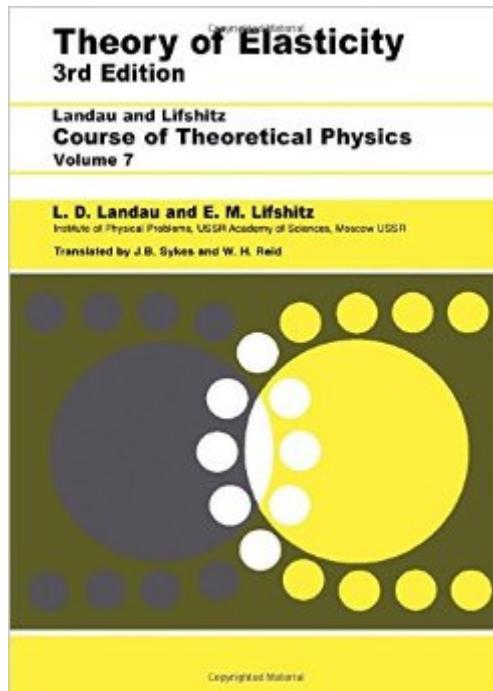


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Theory Of Elasticity, Third Edition: Volume 7 (Course Of Theoretical Physics)



Synopsis

A comprehensive textbook covering not only the ordinary theory of the deformation of solids, but also some topics not usually found in textbooks on the subject, such as thermal conduction and viscosity in solids.

Book Information

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Customer Reviews

This is the Volume 7 of the famous Course of Theoretical Physics by L. D. Landau and E. M. Lifshitz. All serious students of theoretical physics must possess the ten volumes of this excellent Course, which cover in detail and rigour practically all the branches of theoretical physics. The Volume 7 treats the subject of the mechanics of deformable bodies. Unlike the major part of other similar books, the Volume 7 is concise and very elegant, and is at the same time detailed in the exposition of the basic elasticity theory. Moreover, it contains certain topics not usually found in other similar books, such as the theory of thermal conduction and viscosity of solids, and a detailed exposition of the fundamentals of the mechanics of liquid crystals. A highly recommended book!

Timoshenko's book is a collection of exercises. Landau's book is a collection of ideas.

Very disappointed, not with the text but with the multiple errors in the characters, apparently in making the text compatible the editor mixed up the notation in almost every page! Will ask for a return and wait for the printed version...

It just doesn't make sense to compare Landau's approach to Timoshenko's. Timoshenko writes for engineers while Landau writes for theoretical physicists so either one of them sucks from the other's perspective. That being said I recommend this book for anyone interested in the subject because it is always enlightening to see Landau's insight

The book is a classic in the field; it's well written and clear, with interesting problems. However, the Publisher chose very tiny fonts, sometimes lacking in toner. Overall they did a terrible print, hard to read!

Like all books in Landau's classic series of books, this one also presents a clear, first-principles description of the mathematical theory underlying some part of physics, in this case, elasticity. I already own Timoshenko's text and like this book far better. This has to do with my specific purpose: I was mainly looking for a reference text that explains the theory concisely and yet completely. I already have a good grasp of other areas in physics, differential calculus, tensors etc. Timoshenko's "build up" starting with plane stress/strain and going towards 3D might be good for students, but left me a bit frustrated as I tried to string together the big picture from snapshots here and there. On the other hand, when I received and opened this book today, the first chapter's title said: "Fundamental Equations," and it made me smile. In typical Landau fashion, the book always goes from the general towards the specific, fast, which is excellent for conveying the essence and global structure of a physical theory. Such structure also clarifies the scope of applicability of various approximations. It transmits the essential mathematical formulation of elasticity in 17 pages. So, if you're looking for a concise, compact, clear theoretical description of elasticity, I highly recommend this book. If you own other books in this series for similar reasons, you will also love this one.

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