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This book will solidify you understanding of the most basic properties of waves.The book is full of graphs and visual illustrations to help the reader understand the physics very well. He is the author of several Student's Guide books, including most recently A Student's Guide to the Mathematics of Astronomy (Cambridge, 2013). ...more This monograph is another in an outstanding series of topic-specific physics texts aimed at providing unmatched clarity for undergraduates and "armchair" physics students. Clear, simple(it does not simplify things, just present each subject in a simple, clear way) and elegant. Cookies are used to provide, analyse and improve our services; provide chat tools; and showyou relevant content on advertising. There are others that I will review independently, but my endorsement applies to all of them. This monograph is another in an outstanding series of topic-specific physics texts aimed at providing unmatched clarity for undergraduates and "armchair" physics students. The choices you make here will apply to your interaction with this service on this device. It is also a very good place for somebody who has been out of (physics) action and wants to remember the basics of waves.This book treats the very basics of waves(either mechanical or electromagnetic waves), so don't expect complicated phenomena that you might find in more advanced books(like Crawford's or Walter Smith's)—although there is "complicated" material like Fourier analysis which I did not expect to find it in such detail in such a short book. He has been a regular contributor of science commentary to PBS station WYSO of Yellow Springs and appears in the public-television documentary The Dayton Codebreakers. The book's website contains additional resources: worked solutions to all problems, animated graphics, a few errata, and author podcasts to augment all the chapters.' Barry R. Physical insights that are helpful for a deep understanding of waves are uniquely presented. For anybody who wants a book to fill in some gaps in intuition, this is the place to go. We use cookies to conduct research and diagnostics to improve our content, products and services, and to measure and analyse the performance of our services. Checking available domains. Show less Show more Performance and Analytics ON OFF If you agree, we will use cookies to understand how customers use our services (for example, by measuring site visits) so we can make improvements. The mechanical wave equation; 5. He has presented more than a dozen professional papers on topics related to high-speed microwave instrumentation and radar cross-section measurement. ... In 2003 and 2005 he was recognized for Faculty Excellence and Innovation by the Southwestern Ohio Council for Higher Education (SOCHE), and in 2004 he received Wittenberg's Distinguished Teaching Award, the university's highest faculty award. show more 'I recommend this supplementary textbook as a clear tutorial for understanding the basic concepts of waves and the wave equation with its applications to mechanics, electromagnetic waves and the Schrödinger equation. We use cookies and similar tools that are necessary to enable you to make purchases, including those used by approved third parties (collectively, "cookies") for the purposes described below. You can learn more about our use of cookies hereAre you happy to accept cookies? You can try to sign in using VPN or TOR browser Go to TOR browser Enable VPN Showing 1-30 Start your review of A Student's Guide to Waves Oct 29, 2015 Adam Lantos rated it it was amazing As a supplement to other waves book, it is as good as it gets. 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It is also a very good place for somebody who has been out of (physics) action and wants to remember the basics of waves.This book treats the very basics of waves(either mechanical or electromagnetic waves), so don't expect complicated phenom As a supplement to other waves book, it is as good as it gets. Previously reviewed was "A Student's Guide To Maxwell's Equations." "Waves" provides excellent exposition on all aspects of wave interactions, as well as generation and absorption, among other topics. Fleisch has published articles in the IEEE Transactions, the Journal of Atmospheric and Terrestrial Physics, and Microwave Journal. Laura Kinnaman, A Student's Guide to the Schrödinger Equation, and A Student's Guide to Laplace Transforms, published in 2022. John Kraus of The Ohio State University of the McGraw-Hill textbook Electromagnetics with Applications. In November 2010, Fleisch was named the Ohio Professor of the Year by the Council for the Advancement and Support of Education and the Carnegie Foundation, and he will serve as the Grand Canyon Astronomer in Residence in the fall of 2022. Masters, Optics and Photonics News show more Daniel Fleisch is a Professor in the Department of Physics at Wittenberg University, where he specializes in electromagnetics and space physics. But one thing that stands out is that the author builds a much needed intuition behind the mathematics(something that most authors don't do because they take for granted that the reader understands WHY those particular mathematics are used to describe each phenomenon).So, to sum it up, get a good primary book like Crawford's Waves or Walter Smith's Waves and Oscillations or David Morin's drafted chapters from his book of waves(they are in his website and they indicate that when his book finally comes out, it will be the best book on waves yet) and then buy this if you need a supplement. You can learn more about how we (plus approved third parties) use cookies and how to change your settings by visiting the Cookies notice. 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Laura Kinnaman is an Assistant Professor of Physics at Morningside College, where she carries out computational research in chemical physics and organizes the Physics Club. While it does not delve into "hard" mathematics, it tackles partial derivatives and more while not going very deep with them. The quantum wave equation; References; Index. Fleisch received his B.S. in Physics from Georgetown University and his M.S. and Ph.D. in Space Physics and Astronomy from Rice University. It is written for undergraduates in physics and engineering, but it also has exceptional value to a wider readership. Wave components; 4. Prof.