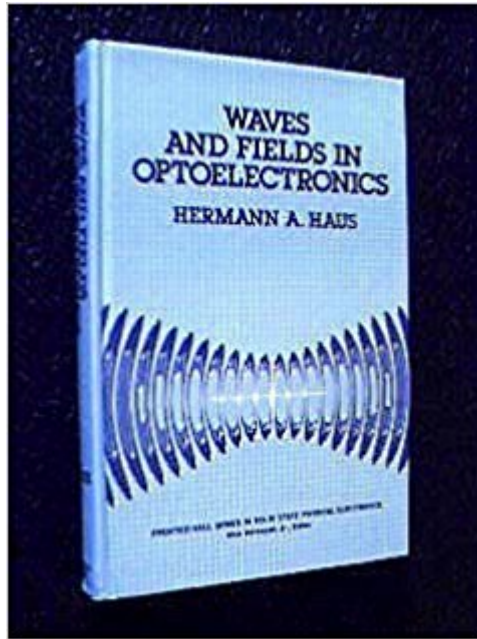


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Waves And Fields In Optoelectronics (Prentice-Hall Series In Solid State Physical Electronics)



Synopsis

Series: Prentice-Hall series in solid state physical electronics Hardcover: 402 pages Publisher: Prentice Hall (September 1983) Language: English ISBN-10: 0139460535 ISBN-13: 978-0139460531

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Hardcover: 402 pages

Publisher: Prentice Hall (September 1983)

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ISBN-10: 0139460535

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Product Dimensions: 9.1 x 6.1 x 1.1 inches

Shipping Weight: 1.6 pounds

Average Customer Review: 4.7 out of 5 stars [See all reviews](#) (6 customer reviews)

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Customer Reviews

I can sympathize somewhat with frustrated reviews of this book. Haus' style is to try to pull the reader up to his level of intuition and understanding. Unfortunately, Haus didn't always seem to have the greatest empathy for those who don't share his experience, let alone his intelligence, and so the book can be frustrating at times. Having said that, the book largely succeeds in the ambitious mission Haus had for it, namely to instill in readers a coherent conceptual framework for thinking about problems in wave mechanics at a level that will allow them to actually contribute to the field. With so many textbooks simply regurgitating the literature and hemming closely to the standard pedagogy, Haus' book is notable for his unique approach to the field. He focuses as much on understanding a problem as in solving it, and to this end he chooses formalisms which may not be the most compact and simple, but which offer greater insight and intuition. This, I think, is his motivation behind stressing the concepts of wave impedance matching and perturbation theory, two very unifying formalisms in optics (and engineering in general). While this requires more effort of the reader, I am certain that it is well worth it and that Haus is not simply trying to make one's life gratuitously difficult. His own success as one of the great theorists in the field should give anyone

sufficient faith in taking the effort of following his lead. It's thus a shame that his textbook has fallen out of use (except for graduate students at MIT and Harvard, who don't seem to be much worse for the experience) and it seems to me that it is not for lack of quality, but simply because other books provide paths of lesser resistance.

I know it is a little late but this book is out of print so get one while you can. The title is a little misleading, the contents are far more general than optoelectronics. Every page of this book from Haus, a national treasure, is a gem, and represents a distillation of his work in this area. The style is terse and intuitive so stay with it and burrow in, it's worth it. The style reminds me so much of another national treasure, Robert Adler who ran the Zenith Research Labs in the great years. Sure enough Bob and Haus both R.I.P. were colleagues and wrote some significant papers together. Grab one while you can.

A great book. It can work fine as a stand-alone text, but I've found it more useful as a supplement. Haus approaches material in a somewhat intuitive and sometimes almost hand-wavy fashion. I don't mean that in a negative way. I find the writing helps me make connections between topics and think about things more clearly. However, if I were reading this as a first text, I can imagine it might cause some discomfort.

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