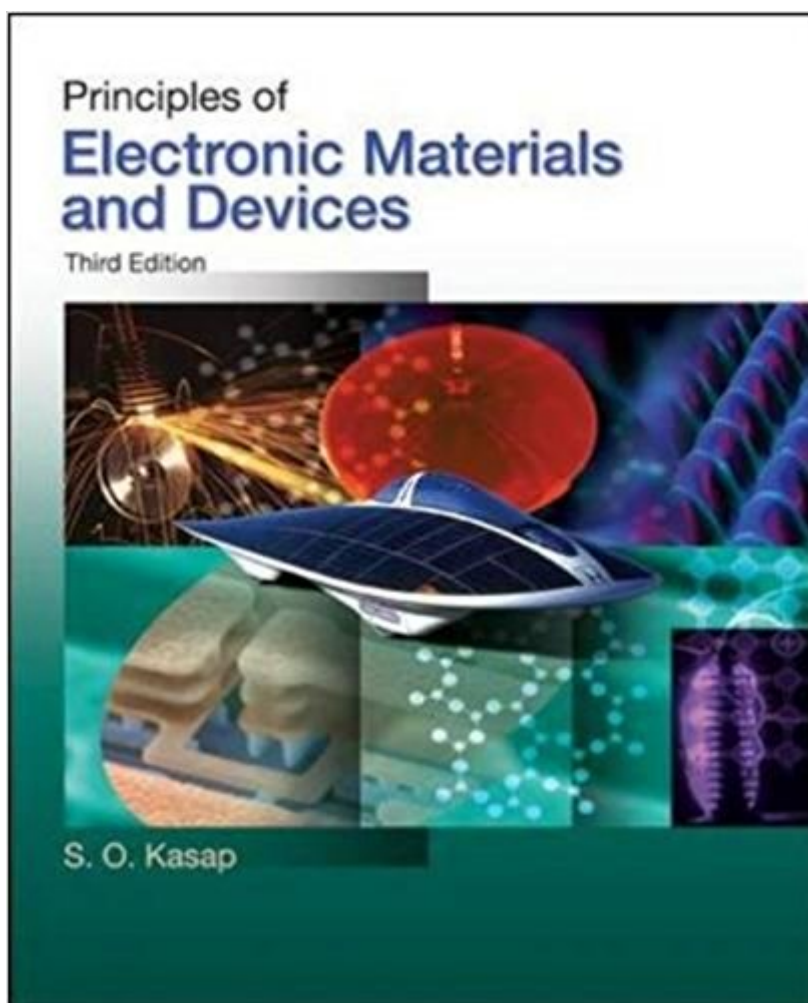




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Principles Of Electronic Materials And Devices



Synopsis

Principles of Electronic Materials and Devices, Third Edition, is a greatly enhanced version of the highly successful text Principles of Electronic Materials and Devices, Second Edition. It is designed for a first course on electronic materials given in Materials Science and Engineering, Electrical Engineering, and Physics and Engineering Physics Departments at the undergraduate level. The third edition has numerous revisions that include more beautiful illustrations and photographs, additional sections, more solved problems, worked examples, and end-of-chapter problems with direct engineering applications. The revisions have improved the rigor without sacrificing the original semiquantitative approach that both the students and instructors liked and valued. Some of the new end-of-chapter problems have been especially selected to satisfy various professional engineering design requirements for accreditation across international borders. Advanced topics have been collected under Additional Topics, which are not necessary in a short introductory treatment.

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Customer Reviews

This book did a terrific Job providing clarity to concepts that the chemistry and Physics books failed to achieve. For example, the book does an excellent job explaining molecular orbital theory and breaking down orbital quantization of energy into its principle constituents including magnetic quantum number when my other books fell short. The book also does an excellent job explaining how impurities and p and n doped crystals affect electrical properties of crystals on at a well laid out mathematical level. Book does an excellent job bridging the gap between experimental values

obtained by well established experimental methods and those values obtained from mathematical models derived from empirical results. As these mathematical models often are associated with assumptions that if violated have a mathematical consequence that the books successfully explains. The book falls short in that the chapters are not as integrating as they could have been and does not have an optimal flow of topics throughout the chapter.

I found it very useful for learning but it is not very clear you need to dig.

good product

This book was listed as an optional text for my electronic materials class, and buying it was one of the best decisions I've made this semester. If you're having any trouble with introductory electronic materials, Kasap is an excellent resource to get you back on track.

This book is pretty easy to follow...It presents the information in a concise way and provides decent example problems...the only set back is that there are no answers or solutions at the back of the book, making it hard to check your work to see if you're doing the problems correctly

This book is very insightful. Very good descriptions of the topics covered. Easy and fun to read; highly recommend.

This is one of my favorite books for one of my favorite classes. I'll probably be holding on to it even after college. I love reading it.

Good Book

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