

Plastics Materials 2nd Edition

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electronic materials provide the basis for many high tech industries that have changed rapidly in recent years in this fully revised and updated second edition the author discusses the range of available materials and their technological applications introduction to the electronic properties of materials 2nd edition presents the principles of the behavior of electrons in materials and develops a basic understanding with minimal

technical detail broadly based it touches on all of the key issues in the field and offers a multidisciplinary approach spanning physics electrical engineering and materials science it provides an understanding of the behavior of electrons within materials how electrons determine the magnetic thermal optical and electrical properties of materials and how electronic properties are controlled for use in technological applications although some mathematics is essential in this area the mathematics that is used is easy to follow and kept to an appropriate level for the reader an excellent introductory text for undergraduate students this book is a broad introduction to the topic and provides a careful balance of information that will be appropriate for physicists materials scientists and electrical engineers

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this book is as a standard reference on the mechanical characteristics and testing of metals, plastics, ceramics, and composites. It understands the basics of mechanical behavior with in-depth coverage on testing methods for those materials. Comparative mechanical properties and the mechanical characteristics of metals, plastics, and ceramics are included throughout for general reference. Updated references to ISO, ASTM, DIN, EN, JIS, and other standards are also included.

For courses in metallurgy and materials science, co-authored by Kenneth G. Budinski and Michael K. Budinski, his son, with over 50 years of combined industry experience in the field, this practical, understandable introduction to engineering materials theory and industry standard selection practices provides students with the working knowledge to: 1. make an informed selection of materials for engineering applications and 2. correctly specify materials on drawings and purchasing documents encompassing all significant material systems: metals, ceramics, plastics, and composites. This text incorporates the most up-to-date information on material usage and availability, addresses the increasingly global nature of the field, and reflects the suggestions of numerous adopters of previous editions.

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