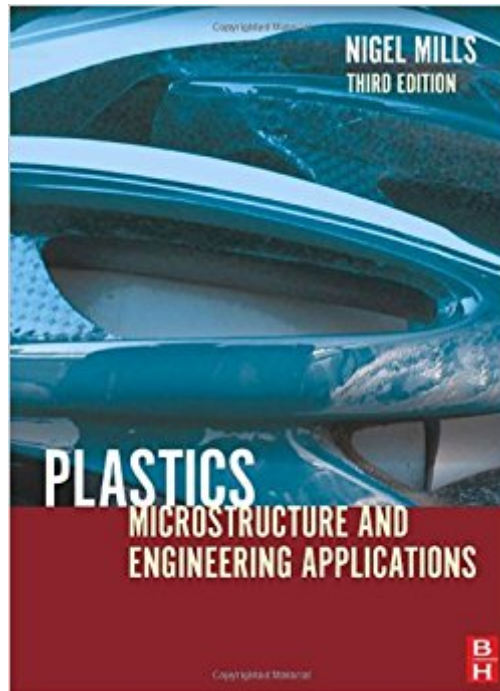




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# Plastics: Microstructure And Engineering Applications



## Synopsis

Now in its Third Edition, *Plastics* is the key text for senior students studying the science and engineering of plastic materials. Starting from microstructure and physical properties, the book covers the mechanical, chemical and electrical properties of plastic materials, and also deals in detail with wider plastics issues that today's engineers and materials scientists need such as manufacturing processes and the design of plastic products. The new edition has been updated to reflect changes in polymer technology and the plastics industry, and the increased knowledge of the mechanical properties of plastics. A new first chapter introduces plastics properties through practical exercises, to help students to see the relevance of more academic chapters. Computer modeling has revealed the mechanics of many types of composites, so the emphasis of chapter 4 has shifted to modeling. Applications, product design and process technology have moved on; consequently the case studies in chapter 14 were updated. A new chapter 15 introduces sport and biomaterials case studies, since increasing numbers of students are enrolled on courses with these emphases. The material has been thoroughly updated, and the principles of polymer structure-property relationships set out more clearly. Meets latest undergraduate needs for studying polymer properties. Expanded coverage of materials selection and shape selection. New teaching case studies plus new material on plastics for use in sport applications and biomaterials. Examination questions to accompany each chapter.

## Book Information

File Size: 9533 KB

Print Length: 528 pages

Publisher: Butterworth-Heinemann; 3 edition (October 15, 2005)

Publication Date: October 15, 2005

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B001E0W0B2

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #954,071 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #31

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Good quality book. Lots of good fundamental knowledge. Nicely layed out.

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