Conducting Polymers, Fundamentals and Applications

Including Carbon Nanotubes and Graphene

- Explains in detail the underlying scientific principles of conducting polymers
- Introduces new concepts and subjects such as polarons, bipolarons, solitons, conduction models, polymerization methods, classes of conducting polymers
- Covers the full spectrum of new applications of conducting polymers
- Details, for in depth study, interdisciplinary applications of conducting polymers such as those in conjunction with materials such as carbon nanotubes and graphene
- Includes informative problems and exercises for coursework at the end of each chapter

The second edition of this popular textbook thoroughly covers the practical basics and applications of conducting polymers. It also addresses materials that have gained prominence since the first edition of this book was published, namely carbon nanotubes and graphene. The features of this new edition include: New and updated chapters on novel concepts in conducting polymers Details on interdisciplinary applications of conducting polymers An in depth description of classes of conducting polymers

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