



Handbook of Thermoplastics, Second Edition (Plastics Engineering)

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Handbook of Thermoplastics, Second Edition (Plastics Engineering) From CRC Press

This new edition of the bestselling **Handbook of Thermoplastics** incorporates recent developments and advances in thermoplastics with regard to materials development, processing, properties, and applications. With contributions from 65 internationally recognized authorities in the field, the second edition features new and updated discussions of several topics, including:

- Polymer nanocomposites
- Laser processing of thermoplastic composites
- Bioplastics
- Natural fiber thermoplastic composites
- Materials selection
- Design and application
- Additives for thermoplastics
- Recycling of thermoplastics
- Regulatory and legislative issues related to health, safety, and the environment

The book also discusses state-of-the-art techniques in science and technology as well as environmental assessment with regard to the impact of thermoplastics. Each chapter is written in a review format that covers:

- Historical development and commercialization
- Polymerization and process technologies
- Structural and phase characteristics in relation to use properties
- The effects of additives on properties and applications
- Blends, alloys, copolymers, and composites derived from thermoplastics
- Applications

Giving thorough coverage of the most recent trends in research and practice, the **Handbook of Thermoplastics, Second Edition** is an indispensable resource for experienced and practicing professionals as well as upper-level undergraduate and graduate students in a wide range of disciplines and industries.

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Editorial Review

Review

"The second edition of the **Handbook of Thermoplastics** offers an important update since the first edition. New subjects have been added for areas emerging of interest since the first edition. Having utilized the first edition in my career before I retired, I can recommend the second edition for professionals in both academic and business areas."

?Lloyd M. Robeson, Air Products and Chemicals, Inc. (Ret.)

"Overall, this new text is very readable and well planned. ...a very good introduction to the majority of the important commonly used classes of industrial thermoplastics."

?Garth L. Wilkes, Virginia Polytechnic Institute and State University

About the Author

Olagoke Olabisi, PhD, is the director of internal corrosion engineering at Corrpro, Houston, Texas. He earned his PhD in macromolecular science and engineering from Case Western Reserve University, Cleveland, Ohio. He is the coauthor, editor, or coeditor of four books and the author or coauthor of more than 50 professional papers and book chapters. He also holds nine international patents. He is a fellow of the Nigerian Society of Chemical Engineers and has been a member of the Polymer Processing Society, the American Institute of Chemical Engineers, the American Chemical Society, NACE International, and the Association of Consulting Chemists and Chemical Engineers.

Kolapo Adewale, PhD, is the process manager of Hanwha Advanced Materials America in Opelika, Alabama. He earned his PhD in polymer science and engineering from the University of Akron, Ohio. He holds 16 international patents and is the author or coauthor of 14 professional papers. He is a member of the Society of Plastic Engineers and the American Institute of Chemical Engineers.

Users Review

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