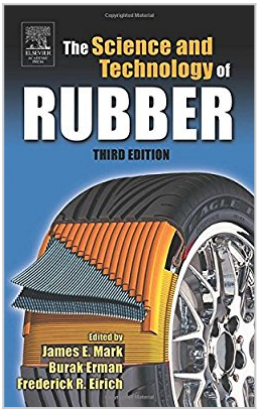

Science and Technology of Rubber, Third Edition

From Academic Press

Science and Technology of Rubber, Third Edition From Academic Press

The 3rd edition of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in the 2nd edition, the emphasis remains on a unified treatment of the material; exploring topics from the chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing.

Many advances have been made in polymer and elastomers research over the past ten years since the 2nd edition was published. Updated material stresses the continuous relationship between the ongoing research in synthesis, physics, structure and mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. This new edition is comprised of 20% new material, including a new chapter on environmental issues and tire recycling.

· Explores new applications of rubber within the tire industry, from new filler materials to “green tires” (a tire that has yet to undergo curing and vulcanization).
· 30% of the material has been revised from the previous edition with the addition of 20% new material, including a chapter on the environment.
· A mixture of theory, experiments, and practical procedures will offer value to students, practitioners, and research & development departments in industry.

Science and Technology of Rubber, Third Edition

From Academic Press

Science and Technology of Rubber, Third Edition From Academic Press

The 3rd edition of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in the 2nd edition, the emphasis remains on a unified treatment of the material; exploring topics from the chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing.

Many advances have been made in polymer and elastomers research over the past ten years since the 2nd edition was published. Updated material stresses the continuous relationship between the ongoing research in synthesis, physics, structure and mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. This new edition is comprised of 20% new material, including a new chapter on environmental issues and tire recycling.

· Explores new applications of rubber within the tire industry, from new filler materials to “green tires” (a tire that has yet to undergo curing and vulcanization).
· 30% of the material has been revised from the previous edition with the addition of 20% new material, including a chapter on the environment.
· A mixture of theory, experiments, and practical procedures will offer value to students, practitioners, and research & development departments in industry.

Science and Technology of Rubber, Third Edition From Academic Press Bibliography

- Sales Rank: #4576597 in Books
- Published on: 2005-05-05
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 1.57" h x 6.30" w x 9.26" l, 2.46 pounds
- Binding: Hardcover
- 768 pages

Editorial Review

Review
"A wealth of technical information that can be traced directly to the literature … A well-rounded and informative book" - Hans G. Elias, Michigan Molecular Institute, Midland, Michigan

"Provides a broad overview of elastomers and materials of rubberlike elasticity and covers a range of areas from elastomer synthesis to vulcanization to tire engineering." - Journal of the American Chemical Society, 2006

From the Back Cover
The 3rd edition of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in the 2nd edition, the emphasis remains on a unified treatment of the material; exploring topics from the chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing.

Many advances have been made in polymer and elastomers research over the past ten years since the 2nd edition was published. Updated material stresses the continuous relationship between the ongoing research in synthesis, physics, structure and mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. This new edition is comprised of 20% new material, including a new chapter on environmental issues and tire recycling.

Key Features:

·Explores new applications of rubber within the tire industry, from new filler materials to “green tires” (a tire that has yet to undergo curing and vulcanization).
·30% of the material has been revised from the previous edition with the addition of 20% new material, including a chapter on the environment.
·A mixture of theory, experiments, and practical procedures will offer value to students, practitioners, and research & development departments in industry.

About the Author
Professor Erman is currently professor of science and engineering at Koc University. He worked in the research group of Prof. P.J. Flory at Stanford University and IBM Research, San Jose, at various intervals between 1976-1985. His scientific collaborations include the Max-Planck Institute fur Polymerforschung in Mainz, and ESPCI, Laboratoire de Physico-Chimie Structurale et Macromoleculaire, Paris. He has been collaborating with Prof. J.E. Mark at Cincinnati University on rubber elasticity since 1987. He has over 200 scientific papers in refereed journals, 2 books and 2 edited books. Burak Erman is a member of the Turkish Academy of Sciences. He served on the Science Board of TUBITAK, editorial board of Computational Polymer Science and Polymer Gels and Networks. He received the 1991 Simavi Science Award, the 1991 TUBITAK Science Award and the 2007 American Chemical Society Whitby Award. His current research interests are focused on the application of the theory of elastomeric networks to predict protein function, and on polymer and protein physics and engineering, both dynamics and statics and experiment and theory, including computer simulations.

Users Review

From reader reviews:

Nancy Reese:

What do you in relation to book? It is not important with you? Or just adding material when you need something to explain what the one you have problem? How about your time? Or are you busy man? If you don't have spare time to perform others business, it is gives you the sense of being bored faster. And you have spare time? What did you do? Everybody has many questions above. They need to answer that question mainly because just their can do in which. It said that about publication. Book is familiar on every person. Yes, it is proper. Because start from on jardín de infancia until university need this kind of Science and Technology of Rubber, Third Edition to read.

Howard Kincaid:

Now a day those who Living in the era where everything reachable by interact with the internet and the resources in it can be true or not demand people to be aware of each facts they get. How a lot more to be smart in acquiring any information nowadays? Of course the reply is reading a book. Reading through a book can help people out of this uncertainty Information especially this Science and Technology of Rubber, Third Edition book since this book offers you rich details and knowledge. Of course the info in this book hundred % guarantees there is no doubt in it you may already know.

Filiberto Dacosta:

This book untitled Science and Technology of Rubber, Third Edition to be one of several books which best seller in this year, that is because when you read this e-book you can get a lot of benefit in it. You will easily to buy this particular book in the book shop or you can order it via online. The publisher in this book sells the e-book too. It makes you easier to read this book, because you can read this book in your Cell phone. So there is no reason for you to past this e-book from your list.

Tammy Kovar:

Typically the book Science and Technology of Rubber, Third Edition will bring you to the new experience of reading a new book. The author style to spell out the idea is very unique. When you try to find new book to read, this book very suited to you. The book Science and Technology of Rubber, Third Edition is much recommended to you to study. You can also get the e-book from your official web site, so you can quicker to read the book.

Third Edition From Academic Press #9KPF17Y3OT8

Read Science and Technology of Rubber, Third Edition From Academic Press for online ebook

Science and Technology of Rubber, Third Edition From Academic Press Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Science and Technology of Rubber, Third Edition From Academic Press books to read online.

Online Science and Technology of Rubber, Third Edition From Academic Press ebook PDF download

Science and Technology of Rubber, Third Edition From Academic Press Doc

Science and Technology of Rubber, Third Edition From Academic Press Mobipocket

Science and Technology of Rubber, Third Edition From Academic Press EPub

9KPF17Y3OT8: Science and Technology of Rubber, Third Edition From Academic Press