



Rubber Compounding: Chemistry and Applications, Second Edition

From CRC Press



Rubber Compounding: Chemistry and Applications, Second Edition From CRC Press

Rubber Compounding: Chemistry and Applications describes the production, processing, and characteristics of a wide range of materials utilized in the modern tire and rubber industry, from natural to butyl rubber, carbon black, silica, silanes, and beyond. Containing contributions from leading specialists in the field, the text investigates the chemistry and modification of raw materials, elastomers, and material compounds for the optimal formulation and engineering of new rubber products.

This **Second Edition** of the bestselling first:

- Adds new sections on environmental issues and recycling
- Provides more information on hydraulic hose and conveyor belting
- Expands the discussion of tire technologies and industrial rubber products
- Includes new information on synthetic elastomers
- Features extensive references for further reading and exploration

Rubber Compounding: Chemistry and Applications, Second Edition supplies the industrial compounder, teacher, or other academic scientist with basic information on materials used in the rubber industry. In addition, the book addresses a gap in the body of literature available to the chemists in industry and academia.

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Editorial Review

Review

"... presents an elementary as well as developing research idea of the principles of Rubber Compounding: Chemistry and Application. ... contains more than enough material ... emphasis has been placed on physical understanding while, at the same time, relying on meaningful experimental data. ... very unique and helpful to understand industrial application and problems related to product."

?Dr. Gautam Sarkhel, Professor, Department of Chemical Engineering and Technology, BIT, Mesra, Ranchi, India

"... Each chapter is written by well-known specialists highly qualified in their respective areas of rubber technology. Their expertise shows in precise guidelines for the practical compounding of different categories of rubber compounds. I am convinced that this book gives newcomers as well as rubber experts valuable insights in the fascinating material "rubber"."

?Prof. Dr. Anke Blume, University of Twente

Praise for the Previous Edition

"[T]he book is full of information and useful for any practitioner. It includes much implicit material [about how] external influences are changing the structure of tires. ... This aspect makes the book useful also for academics. Summing Up: Recommended."

?*CHOICE*, Feb. 2005

"... a gold mine of information for anyone involved in making elastomeric products of any type."

?*Polymer News*, 2005, Vol. 30

About the Author

Brendan Rodgers was senior engineer at ExxonMobil's Baytown Technology and Engineering Center in Texas, USA, and is now technology advisor at the ExxonMobil Chemical Company, Shanghai Technical Center, China. Previously, he was as an engineer with the Goodyear Tire and Rubber Company, with assignments in Europe and the United States. He earned his BS from the University of Ulster, Northern Ireland, and his MS in polymer technology and Ph.D in chemical engineering from The Queen's University of Belfast, Northern Ireland.

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