

## Current topics in elastomers research

Anil K. Bhowmick (ed.), CRC Press – Taylor & Francis Group, Boca Raton, 2008, 1,090 p., hardback, ISBN 978-0-8493-7317-6, USD 189.95

The title *Current topics in elastomers research* provides a broad overview of rubber research activities from around the world. All topics have been contributed by leading experts in their fields. The book is divided into seven sections with 38 chapters.

The first section begins with a general introduction before presenting the chemistry and structure-property relationships of a variety of new materials and composites in section two. The third section covers the most important rubber ingredients and discusses rubber curing systems, degradation and protection, improved mixing chemistry, silica fillers as well as the mechanism of the carbon black reinforcement of rubbers.

Two important new characterisation techniques, 3D-TEM and AFM, are evaluated in the fourth section, while the fifth considers the physics and engineering aspects of elastomers, including reinforcement mechanisms, viscoelastic properties, fatigue life, abrasion, adhesion, rheology, mixing and processing, and the effects of time, temperature and fluids. The sixth section is dedicated to tyres, their technology and recent developments as well as rubber oxidation in tyres. Finally, the book includes two chapters on eco-friendly elastomer technology and waste rubber recycling.

The title at hand is a comprehensive review of current elastomers research and applications. It includes a wealth of once-guarded knowledge from industry research activities and is highly recommended to any researcher or beginner in rubber science and technology.

**Adresse:**

<http://www.gupta-verlag.com/thermoplastic-elastomers/news/literature/6858/current-topics-in-elastomers-research>