



Polymeric Foams: Science and Technology

Shau-Tarng Lee, Chul B. Park, N. S. Ramesh

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Polymers are among the major hallmarks of 20th-century science, and the explosive outgrowth and tremendous importance of polymeric foams is a testament to their amazing versatility and unique properties. With applications from automotive to acoustic and medical, polymeric foams pervade all areas of our lives. If this growth is to continue into the new millennium, especially in light of stringent environmental regulations, a strong understanding of the basic science and the major technologies behind foam production is critical.

Written by experienced and accomplished leaders in the field, *Polymeric Foams: Science and Technology* provides comprehensive coverage of the fundamentals, technologies, applications, and recent developments. The authors first outline the basic principles and fundamental foaming mechanisms, covering thermodynamics, kinetics, and the basics of blowing agents and foam formation. Foaming technologies and product applications then become the focus, with explanations of structure-property relationships, processing methods, and general types of foams. The book concludes with chapters on recent developments in composite and biodegradable foams that illustrate how to tailor processing to meet application needs.

Illuminating the role of polymeric foams in the modern materials landscape, *Polymeric Foams: Science and Technology* is the perfect guide for developing innovative materials that achieve better performance and regulatory compliance.

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