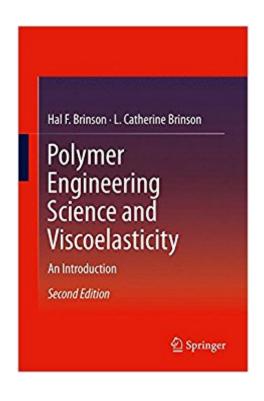


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Polymer Engineering Science And Viscoelasticity: An Introduction





Synopsis

This book provides a unified mechanics and materials perspective on polymers: both the mathematics of viscoelasticity theory as well as the physical mechanisms behind polymer deformation processes. Introductory material on fundamental mechanics is included to provide a continuous baseline for readers from all disciplines. Introductory material on the chemical and molecular basis of polymers is also included, which is essential to the understanding of the thermomechanical response. This self-contained text covers the viscoelastic characterization of polymers including constitutive modeling, experimental methods, thermal response, and stress and failure analysis. Example problems are provided within the text as well as at the end of each chapter.New to this edition: Brings up-to-date polymer production and sales data and equipment and procedures for evaluating polymer characterization and classification Â Â Â Â Â The work serves as a comprehensive reference for advanced seniors seeking graduate level courses, first and second year graduate students, and practicing engineers

Book Information

Hardcover: 482 pages Publisher: Springer; 2nd ed. 2015 edition (January 24, 2015) Language: English ISBN-10: 1489974849 ISBN-13: 978-1489974846 Product Dimensions: 6.1 x 1.1 x 9.2 inches Shipping Weight: 1.9 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #1,122,323 in Books (See Top 100 in Books) #95 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing #183 in Books > Science & Math > Technology > Nanotechnology #303 in Books > Engineering & Transportation > Engineering > Material Science > Polymers & Textiles

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Dr. Hal F. Brinson is Professor Emeritus in the Department of Mechanical Engineering at the University of Houston. Dr. L Catherine Brinson is Professor and Chair of the Department of Mechanical Engineering at Northwestern University.

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