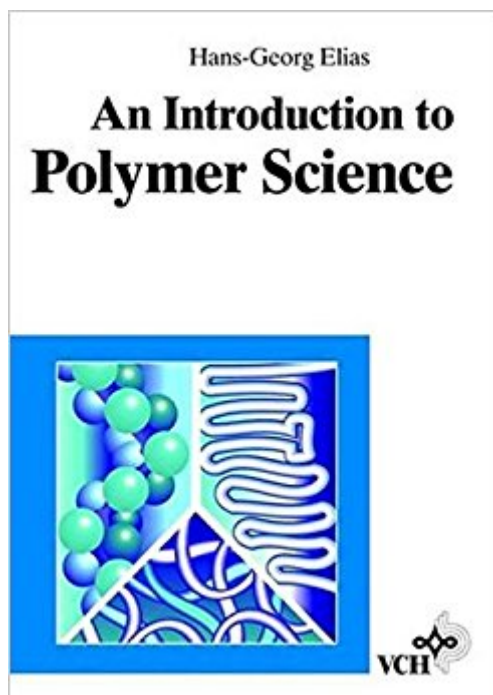


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# An Introduction To Polymer Science



## Synopsis

Polymer science at its best! A completely new approach reflecting the interdisciplinary nature of polymer science! Modern polymer science is firmly rooted not only in the chemistry of macromolecules but also in their physical chemistry and physics. Furthermore, this modern insight provides the reader with information on the three most important uses of synthetic polymers: elastomers, fibers, and plastics. Biopolymers are also considered. This book fulfills the need for a volume which introduces polymer science in a straightforward, rigorous, and practical way. It is divided into four parts that cover the chemistry, physical chemistry, physics, and technology of polymers. Whenever possible, physical equations are not just presented but are derived step by step from first principles enabling the newcomer to ease smoothly into the subject. The reference to industrial aspects makes this book an indispensable support for both students and professionals.

## Book Information

Hardcover: 470 pages

Publisher: VCH; 1 edition (February 1997)

Language: English

ISBN-10: 3527287906

ISBN-13: 978-3527287901

Product Dimensions: 7 x 1.1 x 9.6 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,803,672 in Books (See Top 100 in Books) #39 in [Books > Science & Math > Chemistry > Polymers & Macromolecules](#) #127 in [Books > Engineering & Transportation > Engineering > Chemical > Plastics](#) #451 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles](#)

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This book uses an interdisciplinary approach to provide insight into the three most important uses of synthetic polymers: elastomers, fibers, and plastics. It introduces polymer science in a straightforward, rigorous, and practical way and is divided into four parts that cover the chemistry, physical chemistry, physics, and technology of polymers. It also discusses biopolymers and industrial aspects of polymers. Whenever possible, physical equations are not just presented but are derived step-by-step from first principles.

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