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# Dendrimers, Dendrons, and Dendritic Polymers

Discovery, Applications and the Future

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## About the Book

Dendrimer science has exploded onto the polymer science scene as the fourth major class of polymer architecture. Capturing the history of dendrimer discovery to the present day, this book addresses all the essential information for newcomers and those experienced in the field, including:

- Fundamental theory, chemistry and physics of the 'dendritic state'
- Synthetic strategies (click chemistry, self-assembly, and so on)
- Dendron/dendrimer characterization techniques
- Architecturally driven 'dendritic effects'
- Developments in scientific and commercial applications
- Convergence with nanotechnology, including dendrimer-based nanodevices, nanomaterials, nanotoxicology and nanomedicine
- Dendrimers as a window to a new nano-periodic system.

This is the ideal book for researchers in both academia and industry who need a complete introduction to the 'dendritic state' with a special focus on dendrimer and dendron polymer science.

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Available from October 2012 | 344 pages  
269 b/w illus. | 2 tables

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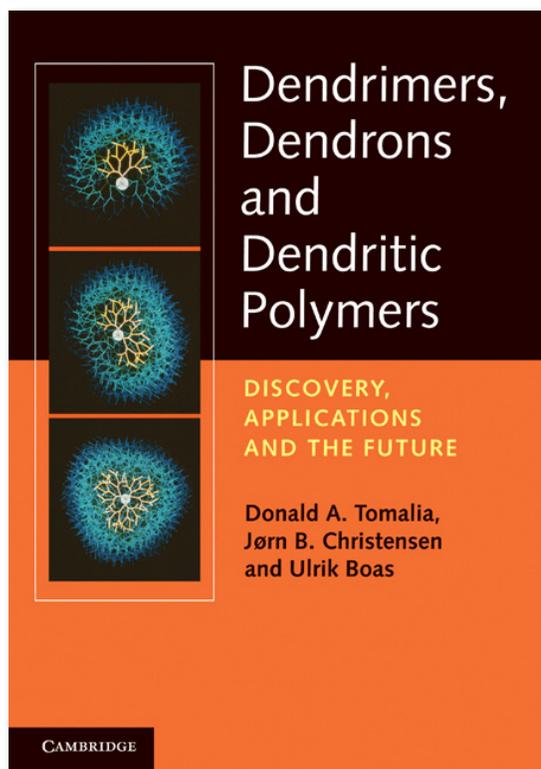
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## Key Features

- Brings readers quickly up to speed on the discovery of dendrimers and the key developments in scientific and commercial applications of the last decade
- Focuses on valuable, architecturally driven properties
- Provides an insight into exciting future possibilities, such as a new nano-periodic system

## Contents

1. Introduction
2. The dendritic state
3. Synthetic methodologies
4. Characterization methodologies
5. Biopharmaceutical applications and products
6. Toxicology of dendrimers and dendrons
7. The dendritic effect
8. Dendrons and dendrimers: quantized dendritic building blocks leading to a new nano-periodic system
9. The past, present and future for dendrimers and dendrons

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