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# Dendrimers and Dendrons: Concepts, Syntheses, Applications

By George R. Newkome, Charles N. Moorefield, Fritz Vögtle



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What's new in dendrimer research? Just as these fascinating giant molecules are continuing to ramify, new perspectives and challenges continue to emerge. This bestseller on dendritic molecules discusses the latest developments in the synthesis and application of these macromolecules. It gives a comprehensive, up-to-date account of the topic, from the historical overview and theoretical background up to the most recent achievements.

Having shaped this scientific field, the authors are able to brilliantly combine the basic principles with a wealth of more advanced information. The optimal presentation of the structural features of dendrimers helps readers to quickly understand even sophisticated syntheses. For special synthetic problems, the well-selected, detailed list of references allows easy access to further literature. This monograph will undoubtedly prove to be of interest for both beginners and advanced scientists in organic and pharmaceutical chemistry, as well as material science.



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### **Review**

"For those working in the area it will be an essential and valuable resource" (*The Alchemist - Chemweb*, 13 May, 2002)

"...encompasses both the fundamentals as well as more sophisticated topics..." (*SciTech Book News*, Vol. 26, No. 2, June 2002)

"...a very useful reference...this book will be on the shelves of all chemistry libraries..." (*Angewandte Chemie International Edition*, Vol. 42, 2003)

### **From the Publisher**

The authors provide a historical overview, theoretical background, and discussions of the synthesis and applications of dendrimers. The book thus spans organic chemistry and more application-orientated disciplines like material science and pharmaceutical chemistry. The excellent, detailed list of references further increases the value of the book. The optimal presentation of the structural formulas of dendrimers - highly symmetrical giant molecules - helps the reader understand the sophisticated synthesis quickly.

### **From the Back Cover**

G.R. Newkome, C.N. Moorefield, F. Vögtle *Dendritic Molecules Concepts · Syntheses · Perspectives* The first book on dendrimers! The authors, pioneers in this scientific field, describe basic principles and current developments in the rapidly evolving field of dendrimer research. All aspects of the subject are covered: the authors provide a historical overview, theoretical background, and discussions of the synthesis and applications of dendrimers. The book thus spans organic chemistry and more application-orientated disciplines like material science and pharmaceutical chemistry. The excellent, detailed list of references further increases the value of the book. The optimal presentation of the structural formulas of dendrimers — highly symmetrical giant molecules — helps the reader understand the sophisticated synthesis quickly. This book will set the standard for further monographs on this subject.

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