DESCRIPTION

Written by internationally acclaimed authors, this textbook contains everything you need to know about this versatile class of compounds. Starting with a historical overview, definitions and other fundamentals, it goes on to look at characterization, analysis and properties of dendrimers. While the focus is on synthesis and applications, it also contains chapters on analytics and other applications.

Essential reading for organic and polymer chemists, undergraduate and graduate students, students and lecturers in chemistry.

ABOUT THE AUTHOR

Born in Ehingen, Germany, in 1939, Fritz Vögtle studied chemistry in Freiburg as well as chemistry and medicine in Heidelberg, where he received his PhD under Professor Hein A. Staab in 1965 on the valence isomerization of double Schiff bases. After gaining his lecturing qualification he was a professor in Würzburg from 1969 to 1975, before accepting a position as full professor and director of the Kekulé-Institut for Organische Chemie und Biochemie in Bonn. He was awarded a literature prize by the Fonds der Chemischen Industrie, the Lise Meitner-Alexander von Humboldt Award, the Izatt-Bradshaw-Christensen Award for Macrocyclic Chemistry and the Adolf von Baeyer medal of the German Chemical Society, as well as an honorary doctorate from the University of Jyväskylä, Finland. He has authored or co-authored several books and numerous scientific papers. Professor Vögtle's research interests include supramolecular and nano chemistry, dendrimers, cyclophanes, low molecular weight gelators and intertwined molecular architectures.
Gabriele Richardt studied chemistry at Bonn, where she was awarded her PhD under Professor H. Wamhoff in the field of nucleosides. In 2002 she began working in Professor Vögtle's group, before transferring to the polymer group headed by Professor S. Höger in 2007.

Nicole Werner studied chemistry and biology at Bonn, receiving her PhD in 2004 under Professor F. Vögtle for her work in the dendrimer field. She has been teaching chemistry and physics at German grammar schools since 2006.

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