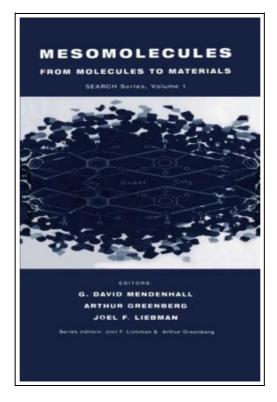
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Springer, Netherlands, 2012. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. The title of this volume implies a progression of sorts from species of molecular size to a product described on the basis of continuum prop- erties. The difference in approach from the standpoint of molecular be- havior, on the one hand-more the forte of chemists-and from the standpoint of large-scale properties, on the other-more the province of chemical engineers and materials scientists-represents a severe cultural divide, but one with much potential for creative input from both sides. Chapter 1 of this volume attempts a broad survey of trends toward the synthesis of large, well-defined molecular systems with interesting physical, chemical, or material properties. Review articles with more de- tailed treatments are emphasized. In Chapter 2, Newkome and Moore- field summarize work on synthesis of /I cascade molecules. Next, Denti, Campagna, and Balzani describe the synthesis of assemblies with con- nected metal-containing chromophore units which transmit electrons or electronic energy in defined ways. In Chapter 4 Wuest describes the con- struction of hydrogen-bonded organic networks, and in Chapter 5 Michl defines a molecular-level construction set. Finally, Jaszczak points out how nature s attempts over geological time spans are emulated by recent human synthetic activity in the fullerene arena, through the appearance of various morphologies of natural graphite. The book concludes with a method for describing fractal-like molecules, and an index based on the method for appropriate compounds described in the text. Softcover reprint of the original 1st ed. 1995.



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