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Sommario/riassunto

This book, edited by Emilio M. Pérez, explores the field of mechanically interlocked molecules (MIMs) and their applications in materials science. It covers a variety of topics including the synthesis and properties of rotaxanes and catenanes, the interaction of MIMs with metal-organic frameworks (MOFs), and their use in molecular motors and nanotubes. The book also delves into the creation and utility of DNA-based interlocked structures, as well as synthetic mechanically interlocked polymers. Targeting researchers and professionals in chemistry and materials science, the book aims to provide an in-depth understanding of the dynamic mechanical properties of MIMs and their potential to advance technology in diverse fields.

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