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Sommario/riassunto

"This book focuses on how smart, functional organic molecules are rationally designed and prepared - an area of intense worldwide research, both in academia and industry. It helps guide chemists to choose among key structural units for accomplishing a desired function of a molecule, aggregate, or material. The applications chemists use organic molecular engineering for cut across disciplinary boundaries and include drug delivery, artificial enzymes, conducting materials, molecular electronics, sensors, and molecular machines. The opening chapters cover the concepts, molecular building blocks, and synthetic tools. These are followed by chapters on molecular electronic, supramolecular chemistry and self-assembly, grapheme, and the engineering of photoresponsive materials"--

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