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Sommario/riassunto	This book offers a thorough examination of CAD-based programming in the context of design and manufacturing, structured across five key chapters. Readers will explore topics such as automated design, geometry feature recognition, and system assembly, as well as the generation of CNC codes directly from CAD models. The book delves into the integration of CAD with CAM and other modules, while addressing the opportunities and challenges posed by emerging technologies like AI and machine learning. Whether you are a designer, engineer, or simply interested in the field, this resource provides both practical insights and a forward-looking perspective on CAD-based workflows.