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Nota di contenuto	1. Crashworthiness Performance of Sandwich Panel with Self-reinforced Polypropylene (SRPP) and Carbon Fi-ber-reinforced Plastic (CFRP) Spherical-roof Contoured Cores -- 2. Design of thin wall composite structures for energy absorption applications -- 3. Crashworthiness performance of foam filled composite tubular structures -- 4. Response of thin-walled composite polymer structures fabricated via additive manufacturing technologies -- 5. Design of Bio-Mimetic Structures Through Additive Manufacturing for Crashworthiness Applications.
Sommario/riassunto	This book summarizes many of the recent advances in the design and application of thin-walled composite protective structures. The past few decades have seen outstanding advances in the use of composite materials in structural applications. Composites have revolutionized traditional design concepts and made possible an unparalleled range of new and exciting possibilities as viable materials for construction. This

book presents an extensive survey on recent improvements in the research and development of composites and biocomposites that are used to make structures in various applications. This book deals with design, research and development studies, experimental investigations, theoretical analysis, and fabrication techniques relevant to the application of composites in load-bearing components for assemblies, ranging from individual components such as plates and shells to complete composite structures. This book also focuses the recent advances in biocomposite materials from renewableresources and introduces a potential application of this material. The content is this book benefits the academics, researchers, scientists, engineers, and students in the field of epoxy blends for application as lightweight advanced composite structures.