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Nota di contenuto	Introduction; Case Study: Joris Laarman Lab; 1. Computer-Aided Design ; What is Computer-Aided Design?; What is Computer-Aided Design Used For?; CAD Modelling Approaches; Drawings to 3D Models; Case Study: Design Partners ; Case Study: DCA Design ; Case Study: Therefore; Case Study: Tools Design ; Case Study: Factory Design ; Case Study: Sudio Aisslinger; Rendering; Case Study: Stefano Giovannoni; Case Study: Philips Design ; Case Study: Priestmangoode; Animation; CAD Software for Product Design ; 2. Rapid Prototyping; What is Rapid Prototyping?; What is Rapid Prototyping Used For? Rapid Prototyping ProcessesRapid Manufacturing and Additive Manufacturing; Subtractive RP; Case Study: 2Form ; Case Study: Lauren Moriarty; Case Study: David Trubridge; Case Study: Daniel Rohr; Case Study: Paul Loebach; Additive RP; Case Study: Fuseproject; Case Study: Freedom Of Creation; Case Study: Ryuji Nakamura & Associates; Case Study: Michaella Janse van Vuuren; Case Study: WertelOberfell Platform; Case Study: Erich Ginder; Case Study: Michael Eden; Case Study: Bathsheba Grossman; Finishing Additive RP Models; Considerations for CAD Models Destined for RP 3. Research and the Future of Computer-Aided Design and Rapid PrototypingEconomics; Materials; The Environment; Consumers; Technology; Design ; Case Study: RepRap; Case Study: Fab@Home; Case Study: AM Research Group; Case Study: Growthobjects; Case Study: Future Factories; Case Study: Bespoke Innovations; Case Study:

Exstent; Case Study: Southampton University ; Case Study: EADS; Conclusion; Glossary; 3D Modelling, Rendering and Engineering Software; Common Types of 3D File; Further Reading; Internet Resources; Picture Credits; Acknowledgements

Sommario/riassunto

Computer-aided design (CAD) and rapid prototyping (RP) are now a fundamental part of the professional practice of product design and are therefore essential skills for product design undergraduate students. This book provides students with all the tools needed to get to grips with the range of both CAD software and RP processes used in the industry. Presented in a visually engaging format, this book is packed with case study examples from contemporary product designers, as well as screen shots, CAD models, and images of rapid prototypes highlighting the design process. This book shows how CAD
