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| Autore | Horvath Joan |
| Titolo | Mastering 3D Printing : A Guide to Modeling, Printing, and Prototyping // by Joan Horvath, Rich Cameron |
| Pubbl/distr/stampa | Berkeley, CA : , : Apress : Imprint : Apress, , 2020 |
| ISBN | 9781523150571 1523150572 9781484258422 1484258428 |
| Edizione | [2nd ed. 2020.] |
| Descrizione fisica | 1 online resource (360 pages) : illustrations |
| Collana | Technology in action |
| Disciplina | 621.988 |
| Soggetti | Computer input-output equipment Multimedia systems Hardware and Maker Media Design |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Introduction -- Part I: 3D Printer Hardware and Software -- Chapter 1: Why Use a 3D Printer? -- Chapter 2: 3D Printers and Printable Materials -- Chapter 3: 3D Printer Workflow and Software -- Chapter 4: Selecting a Printer: Comparing Technologies -- Chapter 5: Operating and Troubleshooting Your 3D Printer -- Chapter 6. Surface Finishing and Post-Processing Plastic Prints -- Part II: Designing for 3D Printing -- Chapter 7: 3D Models -- Chapter 8: Design Rules for 3D Printing -- Chapter 9: Special Geometries -- Part III: Applications -- Chapter 10: Manufacturing Plastic Parts -- Chapter 11: Metal 3D Printing and Casting -- Chapter 12: Prototyping and 3D Visualization -- Chapter 13: 3D Printers in the classroom -- Chapter 14: The Future: Research Areas -- Appendix & Links. |
| Sommario/riassunto | Get the most out of your printer, including how to design models, choose materials, work with different printers, and integrate 3D printing with traditional prototyping to make techniques like sand casting more efficient. This book is for new 3D printer owners, makers of all kinds, entrepreneurs, technology educators, and anyone curious |

about what you can do with a 3D printer. In this revised and expanded new edition of Mastering 3D Printing, which has been a trusted resource through five years of evolution in the 3D printing industry, you'll gain a comprehensive understanding of 3D printing. This book presumes no foreknowledge and describes what you need to know about how printers work, how to decide which type of printer (filament, resin, or powder) makes the most sense for you, and then how to go forward in the case of filament and resin printers. This new edition now includes material about consumer resin printing, the evolution of lower-cost metal printing, and the plethora of both materials and applications. You will:

- Choose among the different 3D printing technologies
- Create or find 3D models to print
- Make both easy and challenging prints come out as you imagined
- Assess whether your business, factory, home or classroom will benefit from 3D printing
- Work with applications that are good candidates for first projects in home and industrial applications.
