Record Nr. UNINA9910633974603321 Trends and Opportunities of Rapid Prototyping Technologies / / edited **Titolo** by Razvan Pacurar Pubbl/distr/stampa London, United Kingdom:,: IntechOpen,, 2022 **ISBN** 1-80355-727-3 Descrizione fisica 1 online resource (82 pages) Disciplina 620.0042 Rapid prototyping Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto 1. Introductory Chapter: Rapid Prototyping - Trends and Opportunities -- 2. New Industrial Sustainable Growth: 3D and 4D Printing -- 3. Multiscale Modeling Framework for Defect Generation in Metal Powder Bed Fusion Process to Correlate Process Parameters and Structural Properties -- 4. Framework for Design and Additive Manufacturing of Specialised Multirotor UAV Parts -- 5. Internal Microchannel Manufacturing Using Stereolithographic 3D Printing. Trends and Opportunities of Rapid Prototyping Technologies provides a Sommario/riassunto comprehensive overview of rapid prototyping, also known as 3D printing. It discusses challenges in this domain, such as lack of standardization and certification, as well as the requirements coming from the industrial sector. The book examines existing 3D printing methods and materials as well as their applications, customizations, and process parameters.