



Solid Freeform Manufacturing: Advanced Rapid Prototyping (Hardback)

By D Kochan, Detlef Kochan

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 1993. Hardback. Book Condition: New. 242 x 162 mm. Language: English . Brand New Book. The direct generation of physical objects based on three dimensional computer aided design (3D-CAD) data is currently a manufacturing process of major importance. The dynamic development in this new high tech area is characterized by the different kinds of equipment commercially available at present, as well as the many new procedures that have been patented or are under development. This book provides a major contribution to progress in industrial applications through its in-depth descriptions of the new technological methodologies and their implications in the planning and shaping of design. All the essential commercially available systems are discussed in detail, and some important systems currently in development are also reviewed. Starting with the necessary 3D-Geometrical Modelling the general tasks for process realization are explained. Further essential main points covered in the volume are: Characteristics of the most suitable areas of application in the manufacturing industry. Systematic approaches for decision-making for the most suitable equipment and usages (whether to invest or job out). Methodical support for proper utilization of selected equipment. Efficient combination with current manufacturing technologies. Technological and economical aspects for...



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