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characteristics and capabilities of the main known rapid prototyping processes It covers in detail commercially available processes such as Stereolithography SLA Selective Laser Sintering SLS Fused Deposition Modelling FDM Solid Ground Curing SGC Laminated Object Manufacturing LOM and provides information on several other processes still under development The book discusses various direct and indirect methods of producing soft tooling firm tooling or bridge tooling and hard tooling based on rapid prototyping The discussion is wide ranging and not found in other books published to date Also special to the book is material on process optimisation This was derived from work at the authors Centre and is not available in other texts The book places a strong emphasis on practical applications devoting special chapters to both the applications of rapid prototyping and rapid tooling The book contains an abundance of photographs and diagrams some in colour to illustrate clearly the principles of the machines and processes involved The book does not require any special background It should be of interest to manufacturing industrial production mechanical and materials engineers wishing to up date themselves on some of the most important developments in modern manufacture The authors are from the Manufacturing Engineering Centre which conducts leading edge research into advanced manufacturing as well as providing a commercial rapid prototyping and tooling service to several hundred industrial customers

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very expensive It must be planned well and use state o

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Rapid Prototyping Ali K. Kamrani,Emad Abouel Nasr,2006-06-18 Rapid prototyping techniques have been increasingly used by industry to reduce product development cycles A large number of processes have been developed allowing the use of various materials ranging from plastics to metal for the development of prototypes Rapid Prototyping Theory and Practice provides a comprehensive collection of the latest research and technical work in the field with an emphasis on both rapid tooling and rapid manufacturing Drawing upon the collective knowledge of renowned experts in the industrial engineering field Ali Kamrani and Emad Abouel Nasr have assembled a wide ranging treatise on rapid prototyping that includes Up to date documentation on the current scope of research on rapid prototyping tooling and manufacturing Methodologies and technologies to support a customer focussed and mass customization approach to production Detailed analysis and case studies of the application of rapid prototyping rapid tooling and rapid manufacturing in fields such as medical and biomedical manufacturing aerospace industry and automotive industry

Rapid Prototyping, Rapid Tooling and Reverse Engineering Kaushik Kumar,Divya Zindani,J. Paulo Davim,2020-06-08 This book introduces the role of Rapid Prototyping Techniques within the product development phase It deals with the concept origin and working cycle of Rapid Prototyping Processes with emphasis on the

applications Apart from elaboration of engineering and non engineering applications it highlights recent applications like Bio Medical Models for Surgical Planning Molecular Models Architectural Models Sculptured Models Psycho Analysis Models Special emphasis has been provided to the technique of generating human organs from live cells tissues of the same human named 3D BIO PRINTERS As the Rapid Prototyping Techniques are for tailor made products and not for mass manufacturing hence the book also elaborates on the mass manufacturing of rapid prototyped products This includes casting and rapid tooling The book concludes with Reverse Engineering and the role played by Rapid Prototyping Techniques towards the same With globalization of market and advances in science and technology the life span of products has shortened considerably For early realization of products and short development period engineers and researchers are constantly working together for more and more efficient and effective solutions The most effective solution identified has been usage of computers in both designing and manufacturing This gave birth to the nomenclatures CAD Computer Aided Designing and CAM Computer aided Manufacturing This was the initiation that ensured short product development and realization period Researchers coined the concept as Rapid Prototyping In contrast to Prototyping Rapid prototyping is a group of techniques used to quickly fabricate a scale model of a physical part or assembly using three dimensional computer aided design CAD data Construction of the part or assembly is usually done using 3D printing or additive or subtractive layer manufacturing technology The first methods for rapid prototyping became available in the late 1980s and were used to produce models and prototype parts Today they are used for a wide range of applications and are used to manufacture production quality parts in relatively small numbers if desired without the typical unfavorable short run economics This economy has encouraged online service bureaus for early product realization or physical products for actual testing This book is expected to contain Seven Chapters Chapter 1 would explain product life cycle and the product development phase in the same introducing role of Rapid Prototyping Techniques in Product development phase Chapter 2 would deals with the concept origin and working cycle of Rapid Prototyping Processes Chapter 3 would concentrates on the applications of Rapid Prototyping Technology Apart from elaboration of engineering and non engineering applications it also elaborates on recent applications like Bio Medical Models for Surgical Planning Molecular Models Architectural Models Sculptured Models Psycho Analysis Models etc Chapter 4 would introduce the various Rapid Prototyping systems available worldwide The chapter also introduces the technique of generating human organs from live cells tissues of the same human named 3D BIO PRINTERS hence ensuring low rejection rate by human body As the Rapid Prototyping Techniques are for tailor made products and not for mass manufacturing hence Chapter 5 would elaborates on the mass manufacturing of rapid prototyped products This includes Casting and Rapid Tooling Chapter 6 would deal with Reverse Engineering and the role played by Rapid Prototyping Techniques towards the same As the product realization is primarily dependent on various softwares which are required to be understood for better accuracy so the concluding chapter of the book i e Chapter 7 would explain some software associated with the various techniques

Rapid Prototyping Casebook Julia A McDonald, Chris J Ryall, David I Wimpenny, 2001-06-22 Time compression technologies such as rapid prototyping and manufacturing offer enormous potential benefits Where time can be saved in the development of new or modified products expenditure can also be reduced Swifter development can also give a competitive edge to those using these techniques However there are a number of different systems and processes that can be used Ensuring that the most appropriate rapid prototyping and manufacturing technology is applied to a problem is vital to the success of a project The case studies compiled by the experienced team of the Warwick Manufacturing Group at the University of Warwick in the UK represent a range of different real experiences drawn from a variety of industries using a range of materials and processes CONTENTS INCLUDE Overview of product design and development Computer aided design and rapid prototyping The introduction of CAD CAM in the ceramics industry Product design and development reverse engineering Reducing the risk of new product development by utilizing rapid prototyping technologies Stress analysis using rapid prototyping techniques Case studies in rapid prototyping and manufacturing techniques flow visualization using rapid prototype models Overview of utilizing bureau facilities Using bureau services Running an internal rapid prototyping bureau Overview of rapid casting techniques An alternative route to metal components for prototype and low volume production Rapid prototyping in pattern making and foundry applications Rapid prototyping enhancing product development at Parker Hannifin Cast tooling with rapid prototype patterns Overview of rapid tooling The role of rapid immediate production tooling IPT in new product development Rapid tooling cast resin and sprayed metal tooling *Rapid Prototyping* Chua Chee Kai, Kah, Kah Fai Leong, 2000-11-01

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