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~~Chua Chee Kai - Engineering Product Development (EPD)~~

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Additive Manufacturing (AM) technologies are developing impressively and are expected to bring about the next revolution. AM is gradually replacing traditional manufacturing methods in some applications because of its unique properties of customisability and versatility. This book provides a very comprehensive and updated text about different types of AM technologies, their respective advantages, shortcomings and potential applications. 3D Printing and Additive Manufacturing: Principles and Applications is a comprehensive textbook that takes readers inside the world of additive manufacturing. This book introduces the different types of AM technologies, categorised by liquid,

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solid and powder-based AM systems, the common standards, the trends in the field and many more. Easy to understand, this book is a good introduction to anyone interested in obtaining a better understanding of AM. For people working in the industry, this book will provide information on new methods and practices, as well as recent research and development in the field. For professional readers, this book provides a comprehensive guide to distinguish between the different technologies, and will help them make better decisions regarding which technology they should use. For the general public, this book sheds some light on the fast-moving AM field. In this edition, new AM standards (e.g. Standard of Terminology and Classification of AM

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systems) and format standards will be included, Furthermore, the listing of new machines and systems, materials, and software; as well as new case studies and applications in industries that have recently adopted AM (such as the Marine and Offshore industry) have also been incorporated.

3D Printing and Additive Manufacturing (AM) has revolutionized how prototypes are made and small batch manufacturing carried out. With additive manufacturing, the strategies used to produce a part change a number of important considerations and limitations previously faced by tool designers and engineers. This 4th edition covers the key AM processes, the available models and

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specifications, and their principles, materials, advantages and disadvantages.

3D printed electronics have captured much attention in recent years, owing to their success in allowing on-demand fabrication of highly-customisable electronics on a wide variety of substrates and conformal surfaces. This textbook helps readers understand and gain valuable insights into 3D printed electronics. It does not require readers to have any prior knowledge on the subject. 3D Printing and Additive Manufacturing of Electronics: Principles and Applications provides a comprehensive overview of the recent progress and discusses the fundamentals of the 3D printed electronics technologies, their

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respective advantages, shortcomings and potential applications. The book covers conventional contact printing techniques for printed electronics, 3D electronics printing techniques, materials and inks for 3D-printed electronics, substrates and processing for 3D-printed electronics, sintering techniques for metallic nanoparticle inks, designs and simulations, applications of 3D-printed electronics, and future trends. The book includes several related problems for the reader to test his or her understanding of the topics. This book is a good guide for anyone who is interested in the 3D printing of electronics. The book is also an effective textbook for undergraduate and graduate courses that aim to arm their students with a thorough understanding of the fundamentals

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of 3D printed electronics.

Rapid Prototyping of Biomaterials: Techniques in Additive Manufacturing, Second Edition, provides a comprehensive review of emerging rapid prototyping technologies, such as bioprinting, for biomedical applications. Rapid prototyping, also known as additive manufacturing, solid freeform fabrication, or 3D printing, can be used to create complex structures and devices for medical applications from solid, powder or liquid precursors. Sections explore a variety of materials, look at applications, and consider the use of rapid prototyping technologies for constructing organs. With its distinguished editor and international team of renowned contributors, this book is a useful,

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technical resource for scientists and researchers in academia, biomaterials and tissue regeneration. Presents a comprehensive review of established and emerging additive manufacturing technologies (such as bioprinting) for medical applications. Contains chapters that explore the additive manufacturing of nanoscale biomaterials for a range of applications, from drug delivery, to organ printing. Includes new information on 3D printing on a variety of material classes.

Additive Manufacturing (AM),
popularly known as 3D printing, is
playing an increasingly significant

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role in the manufacturing arena. AM has revolutionized how prototypes are to be made and small batch manufacturing should be carried out. Due to high flexibility and high efficiency of lasers, laser-assisted Manufacturing (LAM) and AM technologies are recently getting much attention over traditional methods. This textbook is a timely information resource for undergraduates, postgraduates and researchers who are interested in this emerging technology. The book will cover the basics of lasers, optics and materials used for manufacturing and 3D printing. It will also include several case studies for readers to apply their understanding of the topics, provide sufficient theoretical background and insights to today's key laser-assisted AM processes and conclude with the

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future prospects of this exciting technology. This is the first textbook tailored specifically for Lasers in 3D Printing and Manufacturing with detailed explanations. The book will focus on laser-assisted 3D printing and Additive Manufacturing (AM) from basic principles of lasers, optics and AM materials to advanced AM technologies, including in-depth discussion on critical aspects throughout the laser-assisted AM processes, such as optical system design, laser-material interaction and laser parameters' optimization.

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