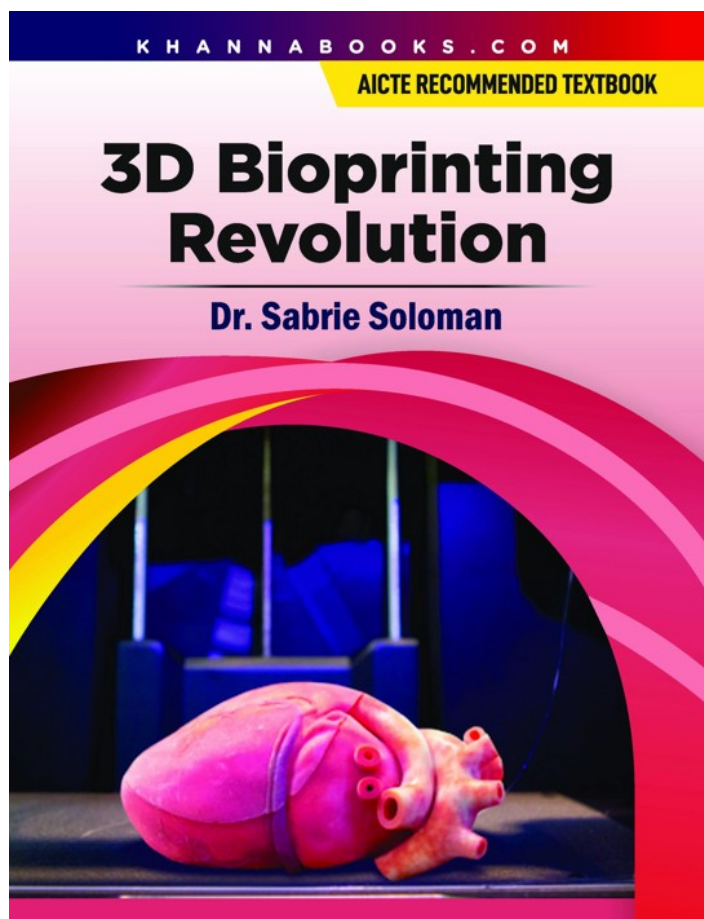




3D Bioprinting Revolution

Author :	Sabrie Soloman
ISBN 13 :	978-93-89139-08-2
ISBN 10 :	93-89139-08-2
E-ISBN 13 :	978-93-89139-08-2
Edition :	First
Pages :	336
Type of book :	Paperback
Weight (g) :	500.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
Categories :	Emerging Technologies
Condition Type :	New
Country Origin :	India

Product Description

This book provides a comprehensive guide to the principles and optimal applications of 3D bioprinting technologies. It explains the operational basics, along with similarities and differences among various bioprinters. School students, university undergraduates, and postgraduate students in biomedical and life sciences will find this book highly valuable in understanding and exploring bioprinting for real-world applications. It not only builds foundational knowledge in design and implementation but also inspires learners to experiment and create their own biological models. Educators, researchers, and medical professionals will be equipped with the insights needed to advance this revolutionary technology within their institutions and industries.

Table of Contents

Chapter 1: 3D Bio-Printing Technology. **Chapter 2:** The Bioprinting Revolution. **Chapter 3:** Additive Bio-Manufacturing. **Chapter 4:** Organ Printing. **Chapter 5:** 3D Printing Scaffolds. **Chapter 6:** 3D Bioprinting Regenerative Medicine. **Chapter 7:** Rapid Prototyping - 3D Bioprinting Orthopedics. **Chapter 8:** The Digital Revolution - 3D Bioprinting Bio-manufacturing. **Chapter 9:** Organ Printing - Discovering Novel Treatments and Drugs. **Chapter 10:** 3D Bioprinting Innovative Design.

Author

Dr. Sabrie Soloman

Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensorRx, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition), Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design Conference, New York, USA.



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320