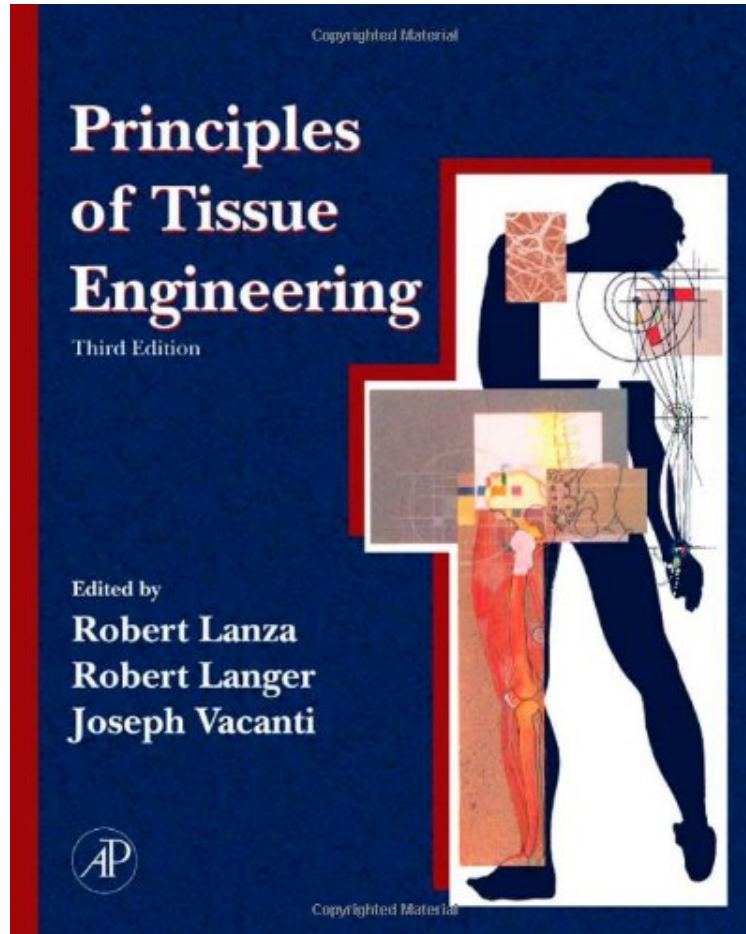


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## Principles of Tissue Engineering, 3rd Edition

*Robert Lanza, Robert Langer, Joseph Vacanti*  
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**Robert Lanza, Robert Langer, Joseph Vacanti : Principles of Tissue Engineering, 3rd Edition** before purchasing it in order to gage whether or not it would be worth my time, and all praised Principles of Tissue Engineering, 3rd Edition:

0 of 0 people found the following review helpful. Reference BookBy Mari MargaretI didn't actually need this book but I bought it for reference for my class because it was recommended and my teacher is adorable. Great condition. Timely arrival. So happy with that. It is actually useful for added understanding.10 of 12 people found the following review helpful. Indispensable for the Serious Scientist, whether Clinicial or BasicBy N. MurphyPrinciples of Tissue Engineering, Third EditionThis text is so well written and organized that it virtually defines the frontiers of the life sciences for the next 100 years, an era that promises to deliver to mankind what our fellow humans only dreamed about for millennia. Truly this text is a milestone in what others have termed "The Century of the Biologist". As a craniofacial and dentoalveolar applied biologist I have shared the information in this book with my patients who not only marvel at the phenomenal explosion of data but also the pracial applications that it explains and justifies. If you

consider yourself an intellectual clinician, a dedicated educator of life science( at any pedagogical level) or committed basic scientists this text is the kind of absolutely required reading you would voluntarily purchase for the thrill of free inquiry that feeds the disquiet spirits of the insatiably curious mind. Each edition will prove, no doubt, to be as eagerly anticipated by serious scientists as devotees and readers of television soap operas or mystery novels awaiting the next development in a captivating plot. For those of us in the "real world" of clinical translational studies we are proud and privileged to have such fertile and generous minds behind our professional endeavors and scholastic avocations. 0 of 5 people found the following review helpful. Tissue Engineering Text By A. Sun The chapters are updated to 2007. The references are relevant and point towards additional information. The quality of diagrams varies from chapter to chapter.

First published in 1997, Principles of Tissue Engineering is the widely recognized definitive resource in the field. The third edition provides a much needed update of the rapid progress that has been achieved in the field, combining the prerequisites for a general understanding of tissue growth and development, the tools and theoretical information needed to design tissues and organs, as well as a presentation by the worlds experts of what is currently known about each specific organ system. This edition includes greatly expanded focus on stem cells, including adult and embryonic stem cells and progenitor populations that may soon lead to new tissue engineering therapies for heart disease, diabetes, and a wide variety of other diseases that afflict humanity. This up-to-date coverage of stem cell biology and other emerging technologies is complemented by a series of new chapters on recent clinical experience in applying tissue engineering. The result is a comprehensive textbook that we believe will be useful to students and experts alike. New to this edition: \*Includes new chapters on biomaterial-protein interactions, nanocomposite and three-dimensional scaffolds, skin substitutes, spinal cord, vision enhancement, and heart valves \*Expanded coverage of adult and embryonic stem cells of the cardiovascular, hematopoietic, musculoskeletal, nervous, and other organ systems

About the Author Robert Lanza, M.D. is currently Chief Scientific Officer at Advanced Cell Technology, and Adjunct Professor of Surgical Sciences at Wake Forest University School of Medicine. He has several hundred scientific publications and patents, and over 30 books, including Principles of Tissue Engineering (1st through 4th Editions), Methods of Tissue Engineering, Principles of Cloning (1st and 2nd Editions), Essentials of Stem Cell Biology (1st and 2nd Editions), XENO, Yearbook of Cell Tissue Transplantation, One World: The Health Survival of the Human Species in the 21st Century (as editor, with forewords by C. Everett Koop and former President Jimmy Carter), and Medical Science the Advancement of World Health. Dr. Lanza received his B.A. and M.D. degrees from the University of Pennsylvania, where he was both a University Scholar and Benjamin Franklin Scholar. He is a former Fulbright Scholar, and studied as a student in the laboratory of Richard Hynes (MIT), Jonas Salk (The Salk Institute), and Nobel laureates Gerald Edelman (Rockefeller University) and Rodney Porter (Oxford University). He also worked closely (and coauthored a series of papers) with the late Harvard psychologist B.F. Skinner and heart transplant pioneer Christiaan Barnard. Dr. Lanza's current area of research focuses on the use of stem cells in regenerative medicine. Robert Langer received honorary doctorates from the ETH (Switzerland) in 1996 and the Technion (Israel) in 1997. Dr. Langer is the Kenneth J. Germeshausen Professor of Chemical and Biomedical Engineering at MIT. He received a Bachelors Degree from Cornell University in 1970 and a Sc.D. from MIT in 1974, both in chemical engineering. Dr. Langer has written 590 articles, 400 abstracts, 350 patents, and has edited 12 books. Dr. Langer has received over 70 major awards, including the Gairdner Foundation International Award, the Lemelson-MIT prize, the American Chemical Society (ACS) Polymer Chemistry and Applied Polymer Science Awards, Creative Polymer Chemistry Award (ACS, Polymer Division), the Pearlman Memorial Lectureship Award (ACD, Biochemical Technology Division), and the A.I.Ch.Es Walker, Professional Progress, Bioengineering, and Stine Materials Science and Engineering Awards. In 1989, Dr. Langer was elected to the Institute of Medicine and the National Academy of Sciences, and in 1992 he was elected to both the National Academy of Engineering and to the National Academy of Sciences. He is the only active member of all 3 United States National Academies. Dr. Joseph P. Vacanti received his M.D. degree from the university of Nebraska in 1974. He received his training in general surgery at the Massachusetts General Hospital from 1974 through 1981 and in pediatric surgery at The Childrens Hospital, Boston from 1981 through 1983. He then received clinical training in transplantation from the University of Pittsburgh. He spent two years in the laboratories of Dr. M. Judah Folkman working in the field on angiogenesis from 1977 through 1979. Upon completion of his training, Dr. Vacanti joined the staff in surgery at childrens Hospital in Boston and began clinical programs in pediatric liver transplantation and extracorporeal membrane oxygenation. In the laboratory, he continued studies in and began work in the field of tissue engineering in 1985. Dr. Vacanti is now John Homans Professor of Surgery at Harvard Medical School, Visiting surgeon at Massachusetts General Hospital, director of the Wellman 6 Surgical laboratories, director of the Laboratory of Tissue Engineering and Organ Fabrication and Director of Pediatric Transplantation at Massachusetts General Hospital, Boston. He has authored more than 120 original reports, 30 book chapters, and 197 abstracts. He has more than 25 patents or patents pending in the United States, Europe, and Japan.