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Nota di contenuto	Acknowledgments; Contents; Contributors; Chapter 1 Tissue Engineering: A Historical Perspective James D. Kretlow and Antonios G. Mikos; Chapter 2 Current Clinical Needs in Hand Surgery L. Scott Levin; Chapter 3 Principles of Tissue Engineering for Reconstruction of the Hand Ryosuke Kakinoki; Chapter 4 Primary Cell Lines and Stem Cells Katie L. Pricola and Hermann Peter Lorenz; Chapter 5 Scaffolds Wei Liu and Yilin Cao; Chapter 6 Animal Models for Engineering Tissues in the Upper Extremity Xing Zhao and Mark A. Randolph Chapter 7 Guidance Strategies in Hand Tissue Engineering: Manipulating the Microenvironment Through Cellular and Material Cues Harvey Chim and Arun K. Gosain Chapter 8 Bioreactors Laurence A. Galea and Wayne A. Morrison; Chapter 9 Nerve Engineering Gregory H. Borschel; Chapter 10 Tendon Engineering Johan Thorfinn, Ioannis Angelidis, Brian Pridgen and James Chang; Chapter 11 Skin Deepak M. Gupta, Nicholas J. Panetta, Geoffrey C. Gurtner and Michael T. Longaker; Chapter 12 Bone and Cartilage Ashley Rothenberg and Jennifer Elisseeff; Chapter 13 Blood Vessels Masayuki Yamato and Teruo Okano

Sommario/riassunto

Musculoskeletal applications of tissue engineering will be among the first to achieve widespread clinical use, and the resulting shift in clinical and surgical paradigms will highlight the need for an authoritative text on tissue engineering for musculoskeletal tissues including nerve, bone, tendon, skin, vessels, and cartilage. This book will serve the needs of a large readership including plastic surgeons, orthopedic surgeons, medical residents and medical students, researchers and academic faculty in regenerative medicine and biomedical engineering, and medical device experts. This textbook
