

Contents

Preface.....	vii
Editors.....	ix
Contributors	xi
1 Mechanics of Hard Tissue.....	1-1
<i>J. Lawrence Katz, Anil Misra, Orestes Marangos, Qiang Ye, and Paulette Spencer</i>	
2 Musculoskeletal Soft-Tissue Mechanics	2-1
<i>Richard L. Lieber, Samuel R. Ward, and Thomas J. Burkholder</i>	
3 Joint-Articulating Surface Motion.....	3-1
<i>Kenton R. Kaufman and Kai-Nan An</i>	
4 Joint Lubrication	4-1
<i>Michael J. Furey</i>	
5 Analysis of Gait.....	5-1
<i>Roy B. Davis III, Sylvia Öunpuu, and Peter A. DeLuca</i>	
6 Mechanics of Head/Neck.....	6-1
<i>Albert I. King and David C. Viano</i>	
7 Biomechanics of Chest and Abdomen Impact	7-1
<i>David C. Viano and Albert I. King</i>	
8 Cardiac Biomechanics.....	8-1
<i>Andrew D. McCulloch and Roy C. P. Kerckhoffs</i>	
9 Heart Valve Dynamics	9-1
<i>Choon Hwai Yap, Erin Spinner, Muralidhar Padala, and Ajit P. Yoganathan</i>	
10 Arterial Macrocirculatory Hemodynamics.....	10-1
<i>Baruch B. Lieber</i>	
11 Mechanics of Blood Vessels	11-1
<i>Thomas R. Canfield and Philip B. Dobrin</i>	
12 The Venous System.....	12-1
<i>Artin A. Shoukas and Carl F. Rothe</i>	

13	The Microcirculation Physiome	13-1
	<i>Aleksander S. Popel and Roland N. Pittman</i>	
14	Mechanics and Deformability of Hematocytes	14-1
	<i>Richard E. Waugh and Robert M. Hochmuth</i>	
15	Mechanics of Tissue/Lymphatic Transport	15-1
	<i>Geert W. Schmid-Schönbein and Alan R. Hargens</i>	
16	Modeling in Cellular Biomechanics	16-1
	<i>Alexander A. Spector and Roger Tran-Son-Tay</i>	
17	Cochlear Mechanics	17-1
	<i>Charles R. Steele and Sunil Puria</i>	
18	Inner Ear Hair Cell Bundle Mechanics	18-1
	<i>Jong-Hoon Nam and Wally Grant</i>	
19	Exercise Physiology	19-1
	<i>Cathryn R. Dooly and Arthur T. Johnson</i>	
20	Factors Affecting Mechanical Work in Humans.....	20-1
	<i>Ben F. Hurley and Arthur T. Johnson</i>	
Index	Index-1