



# Contents

Preface	vii
1. Heart and Blood Vessels	1
2. Cardiac Electrophysiology	7
3. Properties of the Heart	12
4. Excitation–Contraction Coupling	17
5. Electrocardiogram	21
6. Laws Governing Circulation	50
7. Cardiac Cycle	55
8. Cardiac Output	62
9. Arterial Pressure	77
10. Heart Sounds	97
11. Arterial Pulse	100
12. Veins	102
13. Lymphatic System	105
14. Local Control of Blood Flow	107



15. Microcirculation	120
16. Circulatory Shock	125
17. Coronary Circulation	135
18. Cerebral Blood Flow	139
19. Circulation through the Skin	145
20. Muscle Blood Flow	148
21. Cardiac Failure	152
22. Cardiovascular Homeostasis	155
Bibliography	160
Index	161