CONTENTS

UNIT I FOUNDATIONS OF CRITICAL CARE NURSING

- 1 Critical Care Nursing Practice, 1
- 2 Ethical Issues, 17
- 3 Legal Issues, 30
- 4 Genetics and Genomics in Critical Care, 48
- 5 Patient and Family Education, 69
- 6 Psychosocial and Spiritual Alterations and Management, 88
- 7 Sleep Alterations and Management, 104
- 8 Nutrition Alterations and Management, 115
- 9 Pain and Pain Management, 143
- 10 Sedation, Agitation, Delirium: Assessment and Management, 170
- 11 End-of-Life Issues, 182

UNIT II CARDIOVASCULAR ALTERATIONS

- 12 Cardiovascular Anatomy and Physiology, 200
- 13 Cardiovascular Clinical Assessment, 222
- 14 Cardiovascular Diagnostic Procedures, 237
- 15 Cardiovascular Disorders, 338
- 16 Cardiovascular Therapeutic Management, 412

UNIT III PULMONARY ALTERATIONS

- 17 Pulmonary Anatomy and Physiology, 467
- 18 Pulmonary Clinical Assessment, 488
- 19 Pulmonary Diagnostic Procedures, 502
- 20 Pulmonary Disorders, 514
- 21 Pulmonary Therapeutic Management, 549

UNIT IV NEUROLOGIC ALTERATIONS

- 22 Neurologic Anatomy and Physiology, 587
- 23 Neurologic Clinical Assessment and Diagnostic Procedures, 620
- 24 Neurologic Disorders and Therapeutic Management, 646

UNIT V KIDNEY ALTERATIONS

- 25 Kidney Anatomy and Physiology, 681
- 26 Kidney Clinical Assessment and Diagnostic Procedures, 694
- 27 Kidney Disorders and Therapeutic Management, 707

UNIT VI GASTROINTESTINAL ALTERATIONS

- 28 Gastrointestinal Anatomy and Physiology, 737
- 29 Gastrointestinal Clinical Assessment and Diagnostic Procedures, 750
- 30 Gastrointestinal Disorders and Therapeutic Management, 763

UNIT VII ENDOCRINE ALTERATIONS

- 31 Endocrine Anatomy and Physiology, 788
- 32 Endocrine Clinical Assessment and Diagnostic Procedures, 800
- 33 Endocrine Disorders and Therapeutic Management, 809

UNIT VIII MULTISYSTEM ALTERATIONS

- 34 Trauma, 849
- 35 Shock, Sepsis, and Multiple Organ Dysfunction Syndrome, 887
- 36 Burns, 926
- 37 Organ Donation and Transplantation, 951
- 38 Hematologic Disorders and Oncologic Emergencies, 997

UNIT IX SPECIAL POPULATIONS

- 39 The Obstetric Patient, 1017
- 40 The Pediatric Patient, 1041
- 41 The Older Adult Patient, 1072
- 42 The Perianesthesia Patient, 1095

APPENDIXES

- A Nursing Management Plans of Care, 1119
- B Physiologic Formulas for Critical Care, 1163