



# Contents

## **PART ONE** **Basic Foundations**

- 1 Safety and Quality Assurance in Blood Banking..... 3
- 2 Blood Collection, Storage, Processing, and Issue.....18
- 3 Principles of Antigens and Antibodies .....51

## **PART TWO** **Erythrocyte Blood Group Systems**

- 4 The ABO Blood Group System.....95
- 5 The Rh, Lewis, and Other Blood Group Systems ..... 126

## **PART THREE** **Transfusion Practices**

- 6 Pretransfusion Testing: Compatibility Testing and Antibody Detection..... 171
- 7 Clinical Problems in Blood Banking..... 206
- 8 Transfusion Policies and Practices ..... 256
- 9 Transfusion Therapy: Blood and Blood Components ..... 275

## **PART FOUR** **Clinical Conditions Associated with Immunohematology**

- 10 Hemolytic Disease of the Newborn..... 321
- 11 Transfusion Reactions..... 344
- 12 Transfusion-Acquired Infectious Diseases ..... 371

## **PART FIVE** **Procedures in Blood Banking**

- 13 Routine Blood Banking Procedures..... 411
- 14 Special Blood Banking Procedures ..... 439
- 15 New Directions in Serologic Testing..... 467

**Glossary**..... 478

**Index** ..... 485