# Brief Table of Contents


*Preface* v

**1 The Colloidal State of Matter** 1

**2 Colloidal Nucleation, Growth, and Ripening** 12

**3 Brownian Motion** 30

**4 Van 't Hoff's Law, Donnan Equilibria, and the Depletion Force** 50

**5 Charged Colloids and Electrical Double Layers** 75

**6 Colloidal Kinetics** 103

**7 Sedimentation, Flow in Porous Media, and Random Particle Packings** 120

**8 Dispersion Flow and Rheology** 139

**9 Magnetic Dispersions** 161

**10 Association Colloids and Emulsions** 180

**11 Colloid Characterization by Light Scattering and Electrophoresis** 193

*Answers to Chapter Exercises* 217

*Glossary* 255

*Index* 263