

# Contents

Preface vii

In Memoriam David Gordon Wilson xi

- 1 A Short History of Bicycling 1**
- 2 Human Power Generation 41**
- 3 Speed Achievements and Racing 129**
- 4 Power and Speed 171**
- 5 Bicycle Aerodynamics 213**
- 6 Rolling: Tires and Bearings 261**
- 7 Braking 319**
- 8 Steering, Balancing, and Stability 349**
- 9 Power Transmission and Hybrid Systems 393**
- 10 Special Human-Powered Machines 453**
- 11 Human-Powered Vehicles for Transportation 523**

Index 547