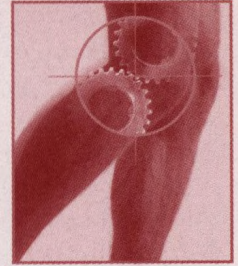


# Foundations of Human Movement



Preface	vii
Acknowledgments	ix

## SECTION I

<b>Foundations of Human Movement</b>	<b>1</b>
<b>1 Basic Terminology</b>	<b>3</b>
<b>2 Skeletal Considerations for Movement</b>	<b>31</b>
<b>3 Muscular Considerations for Movement</b>	<b>61</b>
<b>4 Neurological Considerations for Movement</b>	<b>101</b>

## SECTION II

<b>Functional Anatomy</b>	<b>127</b>
<b>5 The Upper Extremity</b>	<b>129</b>
<b>6 The Lower Extremity</b>	<b>171</b>
<b>7 The Trunk</b>	<b>233</b>

## SECTION III

<b>Mechanical Analysis of Human Motion</b>	<b>269</b>
<b>8 Linear Kinematics</b>	<b>271</b>
<b>9 Angular Kinematics</b>	<b>309</b>
<b>10 Linear Kinetics</b>	<b>337</b>
<b>11 Angular Kinetics</b>	<b>381</b>
Appendix <b>A</b> Ligaments	428
Appendix <b>B</b> Muscles	434
Appendix <b>C</b> Metric System and SI units	446
Appendix <b>D</b> Trigonometric Functions	449
Appendix <b>E</b> Sample Kinematic and Kinetic Data	453
<b>Index</b>	<b>461</b>