



## Reference Section 830

<b>Appendix A</b> Mathematical Review .....	832
<b>Appendix B</b> Downloading Graphing Calculator Programs .....	847
<b>Appendix C</b> Symbols .....	848
<b>Appendix D</b> Equations .....	854
<b>Appendix E</b> SI Units .....	866
<b>Appendix F</b> Useful Tables .....	868
<b>Appendix G</b> Periodic Table of the Elements .....	872
<b>Appendix H</b> Abbreviated Table of Isotopes and Atomic Masses .....	874
<b>Appendix I</b> Additional Problems .....	880
<b>Appendix J</b> Advanced Topics .....	897
Angular Kinematics .....	898
Tangential Speed and Acceleration .....	902
Rotation and Inertia .....	904
Rotational Dynamics .....	906
Properties of Gases .....	908
Fluid Pressure .....	910
The Doppler Effect and the Big Bang .....	912
Special Relativity and Time Dilation .....	914
Special Relativity and Velocities .....	916
The Equivalence of Mass and Energy .....	918
General Relativity .....	920
De Broglie Waves .....	922
Electron Tunneling .....	924
Semiconductor Doping .....	926
Superconductors and BCS Theory .....	928
Antimatter .....	930
<b>Appendix K</b> Selected CBL™ Procedures .....	932
Free-Fall Acceleration (Chapter 2) .....	932
Force and Acceleration (Chapter 4) .....	934
Specific Heat Capacity (Chapter 9) .....	936
Speed of Sound (Chapter 12) .....	938
Magnetic Field of a Conducting Wire (Chapter 19) .....	940

## Selected Answers 942

## Glossary 952

## Index 958