

Appendix A Mathematical Review Appendix B Downloading Graphing Calculator Programs 847 Appendix C Symbols 848 Appendix D Equations 854 Appendix E SI Units 866 Appendix F Useful Tables 868 Appendix G Periodic Table of the Elements 872 Appendix H Abbreviated Table of Isotopes and Atomic Masses 874 Appendix I Additional Problems 880 Appendix J 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 Appendix K Selected CBL™ Procedures 932 Free-Fall Acceleration (Chapter 2) 933 Force and Acceleration (Chapter 9) 936 Speed of Sound (Chapter 12) 938 Magnetic Field of a Conducting Wire (Chapter 19) 940 Selected Answers 942 Index 958	Contents	
Appendix C Symbols 848 Appendix D Equations 854 Appendix E SI Units 866 Appendix F Useful Tables 868 Appendix G Periodic Table of the Elements 872 Appendix H Abbreviated Table of Isotopes and Atomic Masses 874 Appendix I Additional Problems 880 Appendix J 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 924 Superconductors and BCS Theory 928 Antimatter 930 Appendix K 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	Appendix A Mathematical Review	832
Appendix D Equations 854 Appendix E SI Units 866 Appendix F Useful Tables 868 Appendix G Periodic Table of the Elements 872 Appendix H Abbreviated Table of Isotopes and Atomic Masses 874 Appendix I Additional Problems 880 Appendix J 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 Appendix K Selected CBL™ Procedures 932 Free-Fall 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	Appendix B Downloading Graphing Calculator Programs	847
Appendix E SI Units 866 Appendix F Useful Tables 868 Appendix G Periodic Table of the Elements 872 Appendix H Abbreviated Table of Isotopes and Atomic Masses 874 Appendix I Additional Problems 880 Appendix J 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 Appendix K Selected CBL TM 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	Appendix C Symbols	848
Appendix F Useful Tables 868 Appendix G Periodic Table of the Elements 872 Appendix H Abbreviated Table of Isotopes and Atomic Masses 874 Appendix I Additional Problems 880 Appendix J 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 Appendix K Selected CBL TM 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	Appendix D Equations	854
Appendix G Periodic Table of the Elements Appendix H Abbreviated Table of Isotopes and Atomic Masses Appendix I Additional Problems Appendix J Advanced Topics Angular Kinematics Rotation and Inertia Rotation and Inertia Properties of Gases Fluid Pressure Fluid Pressure Special Relativity and Time Dilation Special Relativity and Velocities The Equivalence of Mass and Energy De Broglie Waves Electron Tunneling Semiconductor Doping Superconductors and BCS Theory Antimatter Appendix K Selected CBL TM Procedures Special Relat Capacity (Chapter 9) Special Relat Capacity (Chapter 19) Selected Answers 942 Glossary 952 Glossary 952 Glossary 952 Glossary	Appendix E SI Units	866
Appendix H Abbreviated Table of Isotopes and Atomic Masses 874 Appendix I Additional Problems 880 Appendix J 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 Appendix K 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	Appendix F Useful Tables	868
Appendix H Abbreviated Table of Isotopes and Atomic Masses 874 Appendix I Additional Problems 880 Appendix J 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 Appendix K 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	Appendix G Periodic Table of the Elements	872
Appendix J 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 Superconductor Doping 926 Superconductors and BCS Theory 928 Antimatter 930 Appendix K Selected CBL TM 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	Appendix H Abbreviated Table of Isotopes	
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 Appendix K Selected CBL TM 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	Appendix I Additional Problems	880
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 Appendix K Selected CBL TM 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	Appendix J Advanced Topics	897
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 Appendix K Selected CBL TM 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	Angular Kinematics	898
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 Appendix K 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	Tangential Speed and Acceleration	902
Properties of Gases 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 Appendix K Selected CBL TM 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	Rotation and Inertia	904
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 Appendix K 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	Rotational Dynamics	906
The Doppler Effect and the Big Bang 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 Appendix K Selected CBL™ Procedures 932 Free-Fall Acceleration (Chapter 2) 932 Force and Acceleration (Chapter 4) 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	Properties of Gases	908
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 Appendix K Selected CBL TM 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		
Special Relativity and Velocities916The Equivalence of Mass and Energy918General Relativity920De Broglie Waves922Electron Tunneling924Semiconductor Doping926Superconductors and BCS Theory928Antimatter930Appendix K Selected CBL™ Procedures932Free-Fall Acceleration (Chapter 2)932Force and Acceleration (Chapter 4)934Specific Heat Capacity (Chapter 9)936Speed of Sound (Chapter 12)938Magnetic Field of a Conducting Wire (Chapter 19)940Selected Answers942		
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 Appendix K Selected CBL TM 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	- ·	
General Relativity 920 De Broglie Waves 922 Electron Tunneling 924 Semiconductor Doping 926 Superconductors and BCS Theory 928 Antimatter 930 Appendix K Selected CBL TM 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	- ·	
De Broglie Waves922Electron Tunneling924Semiconductor Doping926Superconductors and BCS Theory928Antimatter930Appendix K Selected CBL™ Procedures932Free-Fall Acceleration (Chapter 2)932Force and Acceleration (Chapter 4)934Specific Heat Capacity (Chapter 9)936Speed of Sound (Chapter 12)938Magnetic Field of a Conducting Wire (Chapter 19)940Selected Answers942		
Electron Tunneling 924 Semiconductor Doping 926 Superconductors and BCS Theory 928 Antimatter 930 Appendix K Selected CBL TM 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	·	
Semiconductor Doping 926 Superconductors and BCS Theory 928 Antimatter 930 Appendix K Selected CBL TM 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		
Superconductors and BCS Theory 928 Antimatter 930 Appendix K Selected CBL TM 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	· ·	
Antimatter 930 Appendix K Selected CBL TM 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	- 0	
Appendix K Selected CBL TM 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	-	
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		
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	**	
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	· · · · · · · · · · · · · · · · · · ·	
Speed of Sound (Chapter 12) 938 Magnetic Field of a Conducting Wire (Chapter 19) 940 Selected Answers 942 Glossary 952		
Magnetic Field of a Conducting Wire (Chapter 19) 940 Selected Answers 942 Glossary 952		
Selected Answers 942 Glossary 952		
Glossary 952	Magnetic Field of a Conducting Wire (Chapter 19)	940
	Selected Answers	42
		\F.A
Index 958	Glossary	<i>5</i> 2
	Index 9	<u>58</u>