

Apologia Physics 2nd Edition

MP3

Audio CD Textbook Section MP3 Audio CD Audiobook

Track	Module 0	Filename	Start Time
1	Introductory Remarks	mod00_01.mp3	0:00:00
2	The Metric System	mod00_02.mp3	0:05:09
3	The Factor-Label Method	mod00_03.mp3	0:06:04
4	Using Units in Mathematical Equations	mod00_04.mp3	0:07:26
5	Making Measurements	mod00_05.mp3	0:08:55
6	Accuracy, Precision, and Significant Figures	mod00_06.mp3	0:09:49
7	Scientific Notation	mod00_07.mp3	0:12:30
8	Mathematical Preparation	mod00_08.mp3	0:13:45

Track	Module 1	Filename	Start Time
9	Introduction	mod01_01.mp3	0:00:00
10	Distance and Displacement	mod01_02.mp3	0:04:19
11	Speed and Velocity	mod01_03.mp3	0:13:29
12	Average and Instantaneous Velocity	mod01_04.mp3	0:30:58
13	Velocity is Relative	mod01_05.mp3	0:52:35
14	Acceleration	mod01_06.mp3	1:00:19
15	Average and Instantaneous Acceleration	mod01_07.mp3	1:11:10

Track	Module 2	Filename	Start Time
16	Introduction	mod02_01.mp3	0:00:00
17	Relating Velocity, Acceleration, and Time	mod02_02.mp3	0:01:28
18	Relating Velocity, Acceleration, and Displacement	mod02_03.mp3	0:09:26
19	Relating Displacement, Velocity, Acceleration, and Time	mod02_04.mp3	0:21:47
20	Using Our Equations for One-Dimensional Motion	mod02_05.mp3	0:31:20
21	Free Fall	mod02_06.mp3	0:41:11
22	A More Detailed Look at Free Fall	mod02_07.mp3	1:00:27
23	Terminal Velocity	mod02_08.mp3	1:11:46

Track	Module 3	Filename	Start Time
24	Introduction	mod03_01.mp3	0:00:00
25	Vectors	mod03_02.mp3	0:01:17
26	Adding and Subtracting Two-Dimensional Vectors: The Graphical	mod03_03.mp3	0:10:26
27	Vector Components	mod03_04.mp3	0:19:33
28	Determining a Vector's Components from its Magnitude and Dire	mod03_05.mp3	0:36:42
29	Adding and Subtracting Two-Dimensional Vectors: The Analytical	mod03_06.mp3	0:39:56
30	Applying Vector Addition to Physical Situations	mod03_07.mp3	0:52:42

Track	Module 4	Filename	Start Time
31	Introduction	mod04_01.mp3	0:00:00
32	Navigation in Two Dimensions	mod04_02.mp3	0:00:43
33	Projectile Motion in Two Dimensions	mod04_03.mp3	0:14:02
34	The Range Equation	mod04_04.mp3	0:34:29

35 Two-Dimensional Situations in Which You Cannot Use the Range | mod04_05.mp3 0:51:36

Track	Module 5	Filename	Start Time
36	Introduction	mod05_01.mp3	0:00:00
37	Sir Isaac Newton	mod05_02.mp3	0:01:01
38	Newton's First Law	mod05_03.mp3	0:04:57
39	Newton's Second Law	mod05_04.mp3	0:15:25
40	Mass and Weight	mod05_05.mp3	0:24:58
41	The Normal Force	mod05_06.mp3	0:38:56
42	Friction	mod05_07.mp3	0:45:30
43	An Equation for the Frictional Force	mod05_08.mp3	0:58:25
44	Newton's Third Law	mod05_09.mp3	1:18:11

Track	Module 6	Filename	Start Time
45	Introduction	mod06_01.mp3	0:00:00
46	Translational Equilibrium	mod06_02.mp3	0:01:39
47	Translational Equilibrium and Measuring Weight	mod06_03.mp3	0:24:43
48	Rotational Motion and Torque	mod06_04.mp3	0:33:08
49	Rotational Equilibrium	mod06_05.mp3	0:48:21
50	Objects on an Inclined Surface	mod06_06.mp3	0:58:13
51	Applying Newton's Second Law to More than One Object at a Tim	mod06_07.mp3	1:11:10

Track	Module 7	Filename	Start Time
52	Introduction	mod07_01.mp3	0:00:00
53	Uniform Circular Motion	mod07_02.mp3	0:01:43
54	Centripetal Force and Centripetal Acceleration	mod07_03.mp3	0:06:10
55	The Source of Centripetal Force	mod07_04.mp3	0:16:20
56	A Fictional Force	mod07_05.mp3	0:29:04
57	Gravity	mod07_06.mp3	0:33:22
58	Circular Motion Terminology	mod07_07.mp3	0:50:41
59	Gravity and the Motion of Planets	mod07_08.mp3	0:55:55

Track	Module 8	Filename	Start Time
60	Introduction	mod08_01.mp3	0:00:00
61	The Definitions of Work and Energy	mod08_02.mp3	0:01:13
62	The Mathematical Definition of Work	mod08_03.mp3	0:03:51
63	Kinetic and Potential Energy	mod08_04.mp3	0:12:09
64	The First Law of Thermodynamics	mod08_05.mp3	0:24:42
65	Friction, Work, and Energy	mod08_06.mp3	0:52:33
66	Energy and Power	mod08_07.mp3	1:16:43

Track	Module 9	Filename	Start Time
67	Introduction	mod09_01.mp3	0:00:00
68	Definition of Momentum	mod09_02.mp3	0:01:02
69	Impulse	mod09_03.mp3	0:05:52
70	The Conservation of Momentum	mod09_04.mp3	0:24:45
71	The Mathematics of Momentum Conservation	mod09_05.mp3	0:42:47

72 Angular Momentum mod09_06.mp3 0:58:51

Track	Module 10	Filename	Start Time
73	Introduction	mod10_01.mp3	0:00:00
74	Hooke's Law	mod10_02.mp3	0:01:42
75	Uniform Circular Motion: An Example of Periodic Motion	mod10_03.mp3	0:17:24
76	The Mass/Spring System	mod10_04.mp3	0:20:18
77	The Mathematics of the Mass/Spring System	mod10_05.mp3	0:27:51
78	Potential Energy in a Mass/Spring System	mod10_06.mp3	0:43:37
79	The Simple Pendulum	mod10_07.mp3	0:57:55

Track	Module 11	Filename	Start Time
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81	Waves	mod11_02.mp3	0:01:24
82	The Physical Nature of Sound	mod11_03.mp3	0:09:49
83	The Doppler Effect	mod11_04.mp3	0:21:53
84	Sound Waves in Substances Other than Air	mod11_05.mp3	0:35:18
85	Sound Waves Beyond the Ear's Ability to Hear	mod11_06.mp3	0:38:33
86	The Speed of Light	mod11_07.mp3	0:42:37
87	Light as a Wave	mod11_08.mp3	0:50:01
88	Light as a Particle	mod11_09.mp3	1:03:50
89	Biographies of Two Important Physicists	mod11_10.mp3	1:21:29

Track	Module 12	Filename	Start Time
90	Introduction	mod12_01.mp3	0:00:00
91	The Law of Reflection	mod12_02.mp3	0:01:46
92	Flat Mirrors	mod12_03.mp3	0:02:46
93	Spherical Mirrors	mod12_04.mp3	0:06:22
94	Ray Tracing in Concave Spherical Mirrors	mod12_05.mp3	0:13:09
95	Ray Tracing in Convex Spherical Mirrors	mod12_06.mp3	0:32:30
96	Snell's Law of Refraction	mod12_07.mp3	0:35:58
97	Converging Lenses	mod12_08.mp3	0:47:38
98	Diverging Lenses	mod12_09.mp3	0:55:12
99	The Human Eye	mod12_10.mp3	0:59:53

Track	Module 13	Filename	Start Time
100	Introduction	mod13_01.mp3	0:00:00
101	The Basics of Electric Charge	mod13_02.mp3	0:02:32
102	Electrostatic Force and Coulomb's Law	mod13_03.mp3	0:19:45
103	Multiple Charges and the Electrostatic Force	mod13_04.mp3	0:33:22
104	The Electric Field	mod13_05.mp3	0:45:53
105	Calculating the Strength of the Electric Field	mod13_06.mp3	0:57:03
106	Applying Coulomb's Law to the Bohr Model of the Atom	mod13_07.mp3	1:07:29

Track	Module 14	Filename	Start Time
107	Introduction	mod14_01.mp3	0:00:00
108	Electric Potential	mod14_02.mp3	0:01:49

109	Electric Potential, Potential Energy, and Potential Difference	mod14_03.mp3	0:09:12
110	Potential Difference and the Change in Potential Energy	mod14_04.mp3	0:12:47
111	Conservation of Energy in an Electric Potential	mod14_05.mp3	0:26:54
112	Capacitors	mod14_06.mp3	0:44:34
113	An Application of Capacitors	mod14_07.mp3	0:55:28
114	How a Television Makes its Picture	mod14_08.mp3	1:03:52

Track	Module 15	Filename	Start Time
115	Introduction	mod15_01.mp3	0:00:00
116	Batteries, Circuits, and Conventional Current	mod15_02.mp3	0:01:19
117	Resistance	mod15_03.mp3	0:11:48
118	Electric Heaters	mod15_04.mp3	0:14:29
119	Electric Power	mod15_05.mp3	0:21:57
120	Switches and Circuits	mod15_06.mp3	0:28:02
121	Series and Parallel Circuits	mod15_07.mp3	0:31:29
122	The Mathematics of Series and Parallel Circuits	mod15_08.mp3	0:39:10
123	Fuses and Circuit Breakers	mod15_09.mp3	0:48:02
124	Current and Power in Series and Parallel Circuits	mod15_10.mp3	0:55:13
125	Analyzing More Complicated Circuits	mod15_11.mp3	1:00:12

Track	Module 16	Filename	Start Time
126	Introduction	mod16_01.mp3	0:00:00
127	Permanent Magnets	mod16_02.mp3	0:01:42
128	Magnetic Fields	mod16_03.mp3	0:05:33
129	How Magnets Become Magnetic	mod16_04.mp3	0:09:19
130	The Earth's Magnetic Field	mod16_05.mp3	0:22:50
131	The Magnetic Field of a Current-Carrying Wire	mod16_06.mp3	0:31:27
132	Faraday's Law of Electromagnetic Induction	mod16_07.mp3	0:35:27
133	Using Faraday's Law of Electromagnetic Induction	mod16_08.mp3	0:44:22
134	Alternating Current	mod16_09.mp3	0:50:32
135	Some Final Thoughts	mod16_10.mp3	0:55:22