List of Film Loops (8 mm)

Film Associates; Space Science Series:
1) 443001 Solar Prominences
2) 443008 Solar Flares

Spring Green Multimedia:
1) PAF 1202 Skylab: Conservation of Astronaut Angular Momentum
2) PAF 1203 Skylab: Darts and Paper Airplanes
3) PAF 1206 Skylab: Lifting in Orbit

Educational Services, Inc. (Equivalent to a set of Ealing films):
1) 50098 Reflections of Straight Waves/Barrier
2) 50099 Reflection of Circular Waves
3) 50100 Reflection of waves from concave barriers
4) 50101 Refraction of Waves in a Ripple Tank
5) 50102 Barrier Penetration by Waves I
6) 50103 Bragg Reflection of Waves
7) 50104 Doppler Effect in a Ripple Tank
8) 50105 Formation of Shockwaves
9) 50106 Superposition of Pulses in a Ripple Tank
10) 50107 Interference of Waves in a Ripple Tank
11) 50108 Effects of Phase Differences in a Ripple Tank
12) 50109 RT-I4 Single Slit Diffraction of Waves in a Ripple Tank
13) 50110 Multiple Diffraction
14) 50111 Diffraction and Scattering of Waves around an Obstacle in a Ripple Tank

Ealing:
1) 80-200 Radioactive Decay (Franklin Miller, Ohio State U.)
2) 80-201 Scintillation Spectrometry (Franklin Miller, Ohio State U.)
3) 80-202 Absorption Spectra (Franklin Miller, Ohio State U.)
4) 80-203 Ferromagnetic Domain Wall Motion (Franklin Miller, Ohio State U.)
5) 80-204 Paramagnetism of Liquid Oxygen (Franklin Miller, Ohio State U.)
6) 80-205 Critical Temperature (Franklin Miller, Ohio State U.)
7) 80-206 Diffraction – Single Slit (Franklin Miller, Ohio State U.)
8) 80-207 Diffraction – Double Slit (Franklin Miller, Ohio State U.)
9) 80-208 Resolving Power (Franklin Miller, Ohio State U.)
10) 80 209 Michelson Interferometer (Franklin Miller, Ohio State U.)
11) 80-210 Coupled Oscillators – Equal Masses (Franklin Miller, Ohio State U.)
12) 80-211 Coupled Oscillators – Unequal Masses (Franklin Miller, Ohio State U.)
13) 80-212 Measurement of “G” – The Cavendish Experiment (Franklin Miller, Ohio State U.)
14) 80-213 Inertial Forces – Translational Acceleration (Franklin Miller, Ohio State U.)
15) 80-214 Inertial Forces – Centripetal Acceleration (Franklin Miller, Ohio State U.)
16) 80-215 Wilberforce Pendulum (Franklin Miller, Ohio State U.)
17) 80-216 Temperature Waves (Franklin Miller, Ohio State U.)
18) 80-217 Non-recurrent Wavefronts (Franklin Miller, Ohio State U.)
19) 80-218 Tacoma Narrows Bridge Collapse (Franklin Miller, Ohio State U.)
20) 80-231 Straight Wave Reflection from Straight Barriers (Educational Services, Inc.)
21) 80-232 Circular Wave Reflection from Various Barriers (Educational Services, Inc.)
22) 80-233 Reflection of Waves from Concave Barriers (Educational Services, Inc.)
23) 80-234 Refraction of Waves (Educational Services, Inc.)
24) 80-235 Barrier Penetration by Waves (Educational Services, Inc.)
25) 80-236 Bragg Reflection of Waves (Educational Services, Inc.)
26) 80-237 Doppler Effect (Educational Services, Inc.)
27) 80-238 Formation of Shock Waves (Educational Services, Inc.)
28) 80-239 Superposition of Pulses (Educational Services, Inc.)
29) 80-240 Interference of Waves (Educational Services, Inc.)
30) 80-241 Effect of Phase Differences between Sources (Educational Services, Inc.)
31) 80-242 Single Slit Diffraction (Educational Services, Inc.)
32) 80-243 Multiple Slit Diffraction (Educational Services, Inc.)
33) 80-244 Diffraction and Scattering around Obstacles (Educational Services, Inc.)
34) 80-251 The Velocity Vector (Educational Services, Inc.)
35) 80-252 Velocity in Circular & Simple Harmonic Motion (Educational Services, Inc.)
36) 80-253 The Acceleration Vector (Educational Services, Inc.)
37) 80-254 Velocity & Acceleration in Circular Acceleration (Educational Services, Inc.)
38) 80-255 Velocity & Acceleration in Simple Harmonic Motion (Educational Services, Inc.)
39) 80-256 Velocity & Acceleration in Free Fall (Educational Services, Inc.)
40) 80-266 Soap Film Oscillations (Educational Services, Inc.)
41) 80-267 Coupled Oscillators, Energy Transfer (Educational Services, Inc.)
42) 80-268 Coupled Oscillators, Other Oscillators (Educational Services, Inc.)
43) 80-269 Coupled Oscillators, Normal Modes (Educational Services, Inc.)
44) 80-288 The Photoelectric Effect (A.E. Walters, Rutgers U.)
45) 80-289 Capacitors and Dielectrics (A.E. Walters, Rutgers U.)
46) 80-291 Maxwellian Speed Distribution (Harold A. Daw, New Mexico State U.)
47) 80-293 Equipartition of Energy (Harold A. Daw, New Mexico State U.)
48) 80-301 Rotating Reference Frames (H.F. Meiners)
49) 80-2728 Constant Velocity and Uniform Acceleration (J.L. Stull, Alfred U.)
50) 80-2736 Newton’s First and Second Laws (J.L. Stull, Alfred U.)
51) 80-2744 Newton’s Third Law (J.L. Stull, Alfred U.)
52) 80-2751 Conservation of Momentum – Inelastic Collisions (J.L. Stull, Alfred U.)
53) 80-2769 Conservation of Energy (J.L. Stull, Alfred U.)
54) 80-2777 Conservation of Momentum – Elastic Collisions (J.L. Stull, Alfred U.)
55) 80-2785 Simple Harmonic Motion – The Stringless Pendulum (J.L. Stull, Alfred U.)
56) 80-2793 Center-of-Mass Pendulum (J.L. Stull, Alfred U.)
57) 80-2801 How an Air Track Works (J.L. Stull, Alfred U.)
58) 80-3031 Distance, Time, and Speed (David Kutliroff, New Brunswick High School)
59) 80-3049 One Dimensional Acceleration (David Kutliroff, New Brunswick High School)
60) 80-3064 Trajectories (David Kutliroff, New Brunswick High School)
61) 80-3030 Circular Motion (David Kutliroff, New Brunswick High School)
62) 80-3098 Simple Harmonic Motion (David Kutliroff, New Brunswick High School)
63) 80-3114 Dynamics of Circular Motion (David Kutliroff, New Brunswick High School)
64) 80-3130 Dynamics of Pendulums (David Kutliroff, New Brunswick High School)
65) 80-3148 The Center of Mass (David Kutliroff, New Brunswick High School)
66) 80-3155 Collisions in Two Dimensions (David Kutliroff, New Brunswick High School)
67) 80-3387 Boyle’s Law (Don Herbert, Prism Productions, Morris Shamos, N.Y.U.)
68) 80-3395 Finding Absolute Zero (Don Herbert, Prism Productions, Morris Shamos, N.Y.U.)
69) 80-3437 Energy Conversion (Don Herbert, Prism Productions, Morris Shamos, N.Y.U.)
70) 80-3460 Acceleration Due to Gravity II (The National Film Board of Canada)
71) 80-3486 A Matter of Relative Motion (The National Film Board of Canada)
72) 80-3528 Galilean Relativity III, Projectile Fired Vertically (The National Film Board of Canada)
73) 80-3775 Colliding Freight Cars (The National Film Board of Canada)
74) 80-3825 Kinetic Energy (The National Film Board of Canada)
75) 80-3866 Standing Waves on a String (The National Film Board of Canada)
76) 80-3874 Standing Waves in a Gas (The National Film Board of Canada)
77) 80 3890 Vibrations of a Rubber Hose (The National Film Board of Canada)
78) 80-3916 Vibrations of a Wire (The National Film Board of Canada)
79) 80-3924 Vibrations of a Drum (The National Film Board of Canada)
80) 80-3932 Vibrations of a Metal Plate (The National Film Board of Canada)
81) 80-3940 Production of Sodium by Electrolysis (The National Film Board of Canada)
82) 80-3957 Thomson Model of the Atom (The National Film Board of Canada)
83) 80-3955 Rutherford Scattering (The National Film Board of Canada)
84) 80-3999 Reversibility of Time (The National Film Board of Canada)
85) 80-4005 Scattering in One Dimension, Part One: Barriers (Education Development Center)
86) 80-4013 Scattering in One Dimension, Part Two: Square Wells (Education Development Center)
87) 80-4021 Scattering in One Dimension, Part Three: Edge Effects (Education Development Center)
88) 80-4054 Particle in a Box (Education Development Center)
89) 80-4161 The Concept of Changing Flux (R.B. Adler, M.I.T.)
90) 80-4179 Faraday’s Law of Induction (R.B. Adler, M.I.T.)
91) 80-4203 Moving System of Orbiting Bodies (Education Development Center)
92) 80-4211 Orbiting Bodies in Various Force Fields, Part I: Positive Power Laws (Education Development Center)
93) 80-4229 Orbiting Bodies in Various Force Fields, Part II: Negative Power Laws (Education Development Center)
94) 82-0001 Liquid Forces (Gene Gray, Newton Public Schools)
95) 82-0019 The Buoyant Force (Gene Gray, Newton Public Schools)
96) 82-0027 Archimedes’ Principle (Gene Gray, Newton Public Schools)
97) 82-0035 Floating and Sinking (Gene Gray, Newton Public Schools)
98) 82-0043 Density of Liquids (Gene Gray, Newton Public Schools)
99) 82-0050 Convection in Liquids (Gene Gray, Newton Public Schools)
100) 82-0068 The Surface of Water (Gene Gray, Newton Public Schools)
101) 82-0076 Drops and Splashes (Gene Gray, Newton Public Schools; H. Edgerton, M.I.T.; T.Uyemura, U. Tokyo)

Kalmia, Co.:

1) 1080 Maxwell-Bozmann Distribution (J.T. Fitch, M.I.T.)
2) 1090 Brownian Motion (J.T. Fitch, M.I.T.)
3) 6521 The Speed of Projectiles, Sound and Light (Robert Ehrlich, S.U.N.Y. at New Paltz)
4) 6522 Simultaneity is Relative (Robert Ehrlich, S.U.N.Y. at New Paltz)
5) 6523 The Michelson-Morley Experiment (Robert Ehrlich, S.U.N.Y. at New Paltz)
6) 6524 Length Contraction (Robert Ehrlich, S.U.N.Y. at New Paltz)
7) 6525 Time Dilation (Robert Ehrlich, S.U.N.Y. at New Paltz)
8) 6526 The Doppler Effect and the Twin Paradox (Robert Ehrlich, S.U.N.Y. at New Paltz)
9) 6527 World Lines (Robert Ehrlich, S.U.N.Y. at New Paltz)
10) 6528 Coordinate Transformation (Robert Ehrlich, S.U.N.Y. at New Paltz)

Odd film loops:

1) Damped Oscillations (Demonstrations in Physics Loop 4, Holt, Rinehart, Winston)
2) Lenz’s Law
3) Group Velocity
4) Fourier Series