

# Physics: CINEMA CLASSICS

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PHYSICSviews™

## Physics: CINEMA CLASSICS DVD 4 Waves (II) & Electricity and Magnetism

### Interference

Water Waves - Ripple Tank (PSSC, 1961)  
Sound Transmission (EBEC, 1972)  
Grating Reflections of Water and Sound (PSSC, 1961)  
Light - Single Slit (PP, 1963)  
Light - Double Slits (PP, 1961; PSSC, 1960)  
Soap Film (PSSC, 1959)  
Holography (EBEC, 1972)

### Diffraction

Water Waves - Ripple Tank (PSSC, 1961)  
Water Waves - Bragg Diffraction  
(NAP, 1950; PSSC, 1961)  
Sound (PSSC, 1961)  
Light - Eye of a Needle (PSSC, 1959)  
Bragg Diffraction Equation (NAP, 1950)

### Color, Scattering, Polarization

Colors - Red, Green, and Blue (EBEC, 1961)  
Color - Reflection and Absorption (EBEC, 1961, 1974)  
Color - Spectral Analysis (EBEC, 1961; PP, 1963)  
Scattering - Light (PSSC, 1959)  
Polarization - Radio (PSSC, 1960)  
Polarization - Microwaves (PSSC, 1960)  
Polarization - Light (PSSC, 1960)

### Electrostatics

Demonstrations (EBEC, 1961, 1964; PSSC, 1959)  
Induction (Ealing, 1967)  
Electric Lines of Force (PSSC, 1959)  
Van de Graaff Generator (Ealing, 1967; EBEC, 1961)  
Faraday Ice Pail Experiment (Ealing, 1967)  
Coulomb's Law (PSSC, 1959, 1961)

### Electric Currents

Simple Electrical Cells (EBEC, 1964)  
Electroplating (EBEC, 1961, 1974)  
A Simple Circuit (EBEC, 1961)  
Conductors and Insulators (EBEC, 1974)  
Automobile Electrical Circuits (EBEC, 1961)  
The Water Analogy (EBEC, 1961)

### Magnetism and Magnetic Fields

Magnets in Old Time Movies (EBEC, 1975)  
Picking Up Tacks (EBEC, 1961)  
Breaking a Magnetized Needle (EBEC, 1975)  
Iron Filings (EBEC, 1961, 1975)  
Magnets on an Incline (EBEC, 1961, 1975)  
Magnetic Rings (EBEC, 1961)  
Colliding Magnets (PSSC, 1959; EBEC, 1961)  
Magnetic Media (EBEC, 1975)  
Permanent Magnets Explained (EBEC, 1975)

### Electromagnetism

Magnets and Wires (EBEC, 1964, 1974, 1975)  
Electromagnetic Induction (EBEC, 1964, 1974, 1975)  
Electromagnets (EBEC, 1964, 1974, 1975; NA, 1990)  
How Motors and Generators Work (EBEC, 1964)  
Magnetic Effects on Electron Beams (PSSC, 1959)  
Field as a Vector (Ealing, 1969)  
Magnetic Field of a Coil (Ealing, 1969)  
Magnetic Force on a Conductor (Ealing, 1969)  
Electrons in a Magnetic Field (PSSC, 1959)

#### Source Codes

Ealing	Ealing Films
EBEC	Encyclopaedia Britannica Educational Corp.
ESS	Elementary Science Study films
MH	McGraw-Hill Inc.
NA	Newton's Apple television series
NAP	North American Philips Corporation
PF	Phoenix Films and Video, Inc.
PP	Project Physics films
PSSC	Physical Science Study Committee films
VA	Visual Almanac, Apple Computer, Inc.

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