

About the course MIT Physics III Vibrations and Waves

For a vibration to occur an object must repeat a movement during a time interval. A wave is a disturbance that extends from one place to another through space. Light and sound are vibrations that move through space -- they are waves!

Science Category's Courses

Course Lesson(24)

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Lesson 2 : [8 03 Lect 1 Periodic Phenomena SHO Complex Notation Physical Pendulum](#)

Lesson 3 : [8 03 Lect 2 Beats Damped Free Oscillations Quality Q](#)

Lesson 4 : [8 03 Lect 3 Driven Oscillations With Damping Steady State Solutions Resonance](#)

Lesson 5 : [8 03 Lect 4 Forced Oscillations Power Resonance Transient Solutions](#)

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Lesson 7 : [8 03 Lect 6 Coupled Oscillators Steady State Transient Solutions Initial Conditions](#)

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Lesson 9 : [8 03 Lect 8 Traveling Waves Standing Waves Longitudinal Waves Energy in Waves](#)

Lesson 10 : [8 03 Lect 9 Sound Cavities Resonance Frequencies Musical Instruments](#)

Lesson 11 : [8 03 Lect 10 First Exam Review Breaking Wine Glass with Sound](#)

Lesson 12 : [8 03 Lect 11 Fourier Analysis Time Evolution of Pulses on Strings](#)

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Lesson 15 : [8 03 Lect 14 Accelerated Charges Poynting Vector Power Rayleigh Scattering](#)

Lesson 16 : [8 03 Lect 15 Doppler Effect Big Bang Cosmology Neutron Stars Black Holes](#)

Lesson 17 : [8 03 Lect 16 Standing EM Waves Reflection Transmission Lines Radiation Pressure](#)

Lesson 18 : [8 03 Lect 17 Wave Guides Resonance Cavities Great Sound Demo in Closed Box](#)

Lesson 19 : [8 03 Lect 18 Index of Refraction Reflection Fresnel Equations Brewster Angle](#)

Lesson 20 : [8 03 Lect 19 Second Exam Review](#)

Lesson 21 : [8 03 Lect 20 Interference Huygens's Principle Thin Films Double Slit Demo](#)

Lesson 22 : [8 03 Lect 21 Diffraction Gratings Spectral Angular Resolution Human Eye](#)

Lesson 23 : [8 03 Lect 22 Rainbows Coronae Glories Glass Bow Great Demos](#)

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