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PHY 24

PRINCIPLES OF GENERAL PHYSICS

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TITLE

INTRODUCTION

V2584.1
DVD723 **INTRODUCTION** (*Conceptual Physics Alive*) -40min, c1991
METRIC SYSTEM – 19min, c1992

MOTION

V2584.2
DVD724.1 **LINEAR MOTION** *speed, velocity, and acceleration* - 40min, c1991
THE LAW OF FALLING BODIES *speed, velocity, acceleration (Mechanical Universe) (Unit 2)* - 30min, c1985

FORCE

DVD724.2
V2584.4 **NEWTON'S LAWS** -30min, c1985
NEWTON'S FIRST LAW -*Law of inertia, mass, net force and statics*
-40min, c1991
V2584.5
V2584.6 **NEWTON'S SECOND LAW** *Force, acceleration and mass* -40min, c1991
NEWTON'S THIRD LAW *Force is a push or a pull* -40min, c1991

V2584.3
DVD724.2
V3203.1 **VECTORS AND PROJECTILES** *Vector addition* -40min, c1991
VECTORS -30min, c1985
NUMBERS, UNITS, SCALARS, AND VECTORS -34min, c2000

V2584.9
V2584.10 **CENTER OF GRAVITY** *Torque, center of mass and center of gravity*
-40min, c1991
ROTATION *Rotational inertia* -40min, c1991

WORK, ENERGY, AND POWER

DVD724.4
DVD724.4
V2584.8 **CONSERVATION OF ENERGY** (*Mechanical Universe*) (Unit 13) -30min, c1985
POTENTIAL ENERGY (*Mechanical Universe*) (Unit 13) -30min, c1985
ENERGY -40min, c1991

TEMPERATURE AND HEAT

V2584.21
V2584.22 **HEAT, TEMPERATURE, AND EXPANSION** -40min, c1991
HEAT TRANSFER -40min, c1991

TEMPERATURE AND HEAT – Cont’d

- V2584.23 HEAT RADIATION -40min, c1991
 TEMPARATURE AND HEAT -40min, c1991
 V2584.24 HEAT: CHANGE OF STATE -40min, c1991
 V3203.3 THERMODYNAMICS -27min, c2000

FLUIDS AND PRESSURE

- V2584.18 LIQUIDS I -40min, c1991
 V2584.19 LIQUIDS II -40min, c1991

ELASICITY AND WAVE; SOUND

- DVD724.5 WAVES (*Mechanical Universe*) (Unit 18) -30min, c1985
 DVD724.5 RESONANCE (*Mechanical Universe*) (Unit 18) -30min, c1985
 V2584.25 VIBRATIONS AND SOUND I -40min, c1991
 V2584.26 VIBRATIONS AND SOUND II -40min, c1991
 V3200 WHAT IS MUSIC? *Sound waves* -57min, c1990

- V2584.13 SATELLITE MOTION -40min, c1991
 DVD724.3 GRAVITY, ELECTRICITIY, MAGNETISM (*Mechanical Universe*)
 (Unit 18) -30min, c1985

SIMPLE ELECTRIC CIRCUITS

- V2584.31 ELECTRIC CURRENT -40min, c1991

ELECTROMAGNETIC RADIATION: INTRODUCTION TO MODERN PHYSICS

- V2584.29 LIGHT WAVES -40min, c1991
 V2584.27 LIGHT AND COLOR -40min, c1991
 V3208 EXPLORING LIGHT AND COLOR -30min, c1993
 V3204 ENERGY & WAVES (THE BEHAVIOR OF LIGHT) -21min, c1993

WAVE – PARTICLE DUALITY SERIES -10min ea, c1992

- V2150.1 PARTICLE MODEL
 V2150.2 WAVE MODEL
 V2150.3 ELECTROMAGNETIC MODEL
 V2150.4 QUANTUM IDEA
 V2150.5 PHOTONS
 V2150.6 MATTER WAVES

ATOMIC PHYSICS

- V2584.16 ATOMS -40min, c1992
 DVD721 ATOMS -20min, c1992

STRUCTURE OF THE ATOM SERIES -10min ea, c1992

- V2149.1 THE EARLIEST MODEL
- V2149.2 SMALLER THAN THE SMALLEST
- V2149.3 RUTHERFORD MODEL
- V2149.4 BOHR MODEL
- V2149.5 SPECTRA
- V2149.6 WAVE-MECHANICAL MODEL