

Q1

for the block to be in

equilibrium

$$\therefore F + F_n \cos \theta = mg \sin \theta$$

$$F + \mu_s F_n = \mu_s (mg \cos \theta + F_n \sin \theta)$$

$$\mu_s mg \cos \theta + \mu_s F \sin \theta + F \cos \theta = mg \sin \theta$$

$$F (\mu_s \sin \theta + \cos \theta) = mg (\sin \theta - \mu_s \cos \theta)$$

$$\left[F = \frac{mg (\sin \theta - \mu_s \cos \theta)}{(\mu_s \sin \theta + \cos \theta)} \right] \quad (\text{g.c})$$

$$\theta = 57.5^\circ, m = 1.70 \text{ kg}, \text{ at } \mu = 0.382$$

$$\text{(a)} \quad \therefore F = 15.39 \approx \underline{15.4 \text{ N}}$$

$$\text{(b)} \quad F_n = mg \cos \theta + F_n \sin \theta = \underline{22.25 \text{ N} \approx 22.3 \text{ N}}$$

Lon Capa Solutions Manual

United States. Congress



Lon Capa Solutions Manual:

Physics for Scientists and Engineers with Modern Physics Douglas C. Giancoli, 2008 Key Message This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to We then move on to the generalizations and more formal treatment of the topic Not only does this make the material more interesting and easier to understand but it is closer to the way physics is actually practiced Key Topics INTRODUCTION MEASUREMENT ESTIMATING DESCRIBING MOTION KINEMATICS IN ONE DIMENSION KINEMATICS IN TWO OR THREE DIMENSIONS VECTORS DYNAMICS NEWTON S LAWS OF MOTION USING NEWTON S LAWS FRICTION CIRCULAR MOTION DRAG FORCES GRAVITATION AND NEWTON S6 SYNTHESIS WORK AND ENERGY CONSERVATION OF ENERGY LINEAR MOMENTUM ROTATIONAL MOTION ANGULAR MOMENTUM GENERAL ROTATION STATIC EQUILIBRIUM ELASTICITY AND FRACTURE FLUIDS OSCILLATIONS WAVE MOTION SOUND TEMPERATURE THERMAL EXPANSION AND THE IDEAL GAS LAW KINETIC THEORY OF GASES HEAT AND THE FIRST LAW OF THERMODYNAMICS SECOND LAW OF THERMODYNAMICS ELECTRIC CHARGE AND ELECTRIC FIELD GAUSS S LAW ELECTRIC POTENTIAL CAPACITANCE DIELECTRICS ELECTRIC ENERGY STORAGE ELECTRIC CURRENTS AND RESISTANCE DC CIRCUITS MAGNETISM SOURCES OF MAGNETIC FIELD ELECTROMAGNETIC INDUCTION AND FARADAY S LAW INDUCTANCE ELECTROMAGNETIC OSCILLATIONS AND AC CIRCUITS MAXWELL S EQUATIONS AND ELECTROMAGNETIC WAVES LIGHT REFLECTION AND REFRACTION LENSES AND OPTICAL INSTRUMENTS THE WAVE NATURE OF LIGHT INTERFERENCE DIFFRACTION AND POLARIZATION SPECIAL THEORY OF RELATIVITY EARLY QUANTUM THEORY AND MODELS OF THE ATOM QUANTUM MECHANICS QUANTUM MECHANICS OF ATOMS MOLECULES AND SOLIDS NUCLEAR PHYSICS AND RADIOACTIVITY NUCLEAR ENERGY EFFECTS AND USES OF RADIATION ELEMENTARY PARTICLES ASTROPHYSICS AND COSMOLOGY Market Description This book is written for readers interested in learning the basics of physics

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