

$$W = \frac{W_0}{10} = \frac{GM_0 m}{(R_0 + h)^2} = \frac{GM_0 m}{10R_0^2} \quad (R_0 + h)^2 = 10R_0^2$$

$$(6378 + h)^2 = 10(6378)^2 \quad h = 13\,790 \text{ km} \quad \blacktriangleleft$$

1.21

$$R = R_0 + R_m + d = 6378 + 1737 + 384 \times 10^3$$

$$= 392.1 \times 10^3 \text{ km} = 392.1 \times 10^6 \text{ m}$$

$$F = G \frac{M_0 M_m}{R^2} = (6.67 \times 10^{-11}) \frac{(5.974 \times 10^{24})(0.07348 \times 10^{24})}{(392.1 \times 10^6)^2}$$

$$= 1.904 \times 10^{20} \text{ N} \quad \blacktriangleleft$$

1.22



$$v = \sqrt{5^2 + 3^2} = 5.83 \text{ m/s} \quad \alpha = \tan^{-1} \frac{3}{5} = 31.0^\circ$$



1.23



$$v_1 = 8 \sin 40^\circ = 5.14 \text{ m/s} \quad \blacktriangleleft \quad v_2 = 8 \sin 50^\circ = 6.13 \text{ m/s} \quad \blacktriangleleft$$

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Albert A Gayle



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Study Guide to Accompany Pytel/Kiusalaas Engineering Mechanics, Dynamics Andrew Pytel, Jean Landa Pytel, Jaan Kiusalaas, 1995

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Stress, Strain, and Structural Dynamics Bingen Yang, 2022-09-13 Stress Strain and Structural Dynamics: An Interactive Handbook of Formulas, Solutions, and MATLAB Toolboxes. Second Edition is the definitive reference to statics and dynamics of solids and structures, including mechanics of materials, structural mechanics, elasticity, rigid body dynamics, vibrations, structural dynamics, and structural controls. The book integrates the development of fundamental theories, formulas, and mathematical models with user-friendly, interactive computer programs written in MATLAB. This unique merger of technical reference and interactive computing provides instant solutions to a variety of engineering problems and in-depth exploration of the physics of deformation, stress, and motion by analysis, simulation, graphics, and animation. Combines knowledge of solid mechanics with relevant mathematical physics, offering viable solution schemes. Covers new topics such as static analysis of space trusses and frames, vibration analysis of plane trusses and frames, transfer function formulation of vibrating systems, and more. Empowers readers to better integrate and understand the physical principles of classical mechanics, the applied mathematics of solid mechanics, and computer methods. Includes a companion website that features MATLAB exercises for solving a wide range of complex engineering analytical problems using closed solution methods to test against numerical and other open-ended methods.

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language American Doctoral Dissertations ,1964 **Engineering Mechanics** Andrew Pytel,Jaan Kiusalaas,1994 The
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