

EXAMPLE 1.3

The 500-kg engine is suspended from the crane boom in Fig. 1-6a. Determine the resultant internal loadings acting on the cross section of the boom at point E .

SOLUTION

Support Reactions. We will consider segment AE of the boom so we must first determine the pin reactions at A . Notice that member CD is a two-force member. The free-body diagram of the boom is shown in Fig. 1-6b. Applying the equations of equilibrium,

$$\zeta + \Sigma M_A = 0; \quad F_{CD}\left(\frac{2}{3}\right)(2 \text{ m}) - [500(9.81) \text{ N}](3 \text{ m}) = 0$$

$$F_{CD} = 12\,262.5 \text{ N}$$

$$\rightarrow \Sigma F_x = 0; \quad A_x - (12\,262.5 \text{ N})\left(\frac{4}{5}\right) = 0$$

$$A_x = 9810 \text{ N}$$

$$+\uparrow \Sigma F_y = 0; \quad -A_y + (12\,262.5 \text{ N})\left(\frac{3}{5}\right) - 500(9.81) \text{ N} = 0$$

$$A_y = 2452.5 \text{ N}$$

Free-Body Diagram. The free-body diagram of segment AE is shown in Fig. 1-6c.

Equations of Equilibrium.

$$\rightarrow \Sigma F_x = 0; \quad N_E + 9810 \text{ N} = 0$$

$$N_E = -9810 \text{ N} = -9.81 \text{ kN}$$

Ans

$$+\uparrow \Sigma F_y = 0; \quad -V_E - 2452.5 \text{ N} = 0$$

$$V_E = -2452.5 \text{ N} = -2.45 \text{ kN}$$

Ans

$$\zeta + \Sigma M_E = 0; \quad M_E + (2452.5 \text{ N})(1 \text{ m}) = 0$$

$$M_E = -2452.5 \text{ N} \cdot \text{m} = -2.45 \text{ kN} \cdot \text{m}$$

Ans

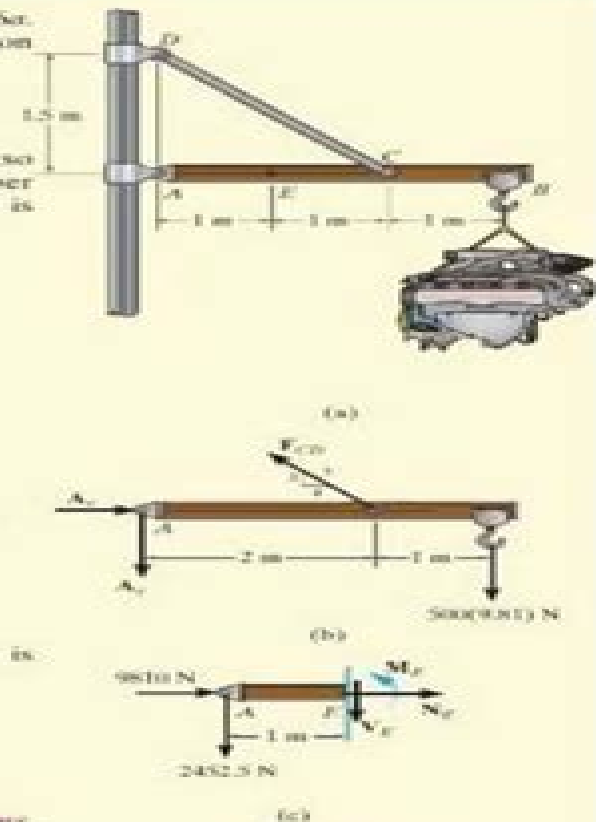


Fig. 1-6

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Fundamentals of Machine Elements, Third Edition Steven R. Schmid, Bernard J. Hamrock, Bo. O.

Jacobson, 2014-07-18 New and Improved SI Edition Uses SI Units Exclusively in the Text Adapting to the changing nature of the engineering profession this third edition of Fundamentals of Machine Elements aggressively delves into the fundamentals and design of machine elements with an SI version This latest edition includes a plethora of pedagogy providing a greater understanding of theory and design Significantly Enhanced and Fully Illustrated The material has been organized to aid students of all levels in design synthesis and analysis approaches to provide guidance through design procedures for synthesis issues and to expose readers to a wide variety of machine elements Each chapter contains a quote and photograph related to the chapter as well as case studies examples design procedures an abstract list of symbols and subscripts recommended readings a summary of equations and end of chapter problems What's New in the Third Edition Covers life cycle engineering Provides a description of the hardness and common hardness tests Offers an inclusion of flat groove stress concentration factors Adds the staircase method for determining endurance limits and includes Haigh diagrams to show the effects of mean stress Discusses typical surface finishes in machine elements and manufacturing processes used to produce them Presents a new treatment of spline pin and retaining ring design and a new section on the design of shaft couplings Reflects the latest International Standards Organization standards Simplifies the geometry factors for bevel gears Includes a design synthesis approach for worm gears Expands the discussion of fasteners and welds Discusses the importance of the heat affected zone for weld quality Describes the classes of welds and their analysis methods Considers gas springs and wave springs Contains the latest standards and manufacturer's recommendations on belt design chains and wire ropes The text also expands the appendices to include a wide variety of material properties geometry factors for fracture analysis and new summaries of beam deflection

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gas mulia gas mulia adalah unsur unsur yang terdapat dalam golongan viiia yang memiliki kestabilan yang sangat tinggi dan sebagian ditemukan di alam dalam bentuk monoatomik unsur unsur yang terdapat dalam gas mulia yaitu helium he neon ne

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sifat sifat gas mulia wujud gas mulia unsur gas mulia terdapat sebagai gas tak berwarna yang monoatomik molekul yg terdiri dari 1 atom ini erat kaitannya dengan struktur elektron oktet dan duplet dari gas mulia

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dec 3 2015 gas mulia dan halogen merupakan unsur kimia yang sifatnya sangat bertolak belakang gas mulia dinamakan mulia karena seperti logam mulia sukar sekali bereaksi sementara halogen halos garam artinya adalah pembentuk garam halogen memiliki 6 bilangan oksidasi sehingga mudah sekali berreaksi dengan unsur lainnya gas mulia noble

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pembuatan gas mulia gas helium mempunyai titik didih yang sangat rendah yaitu 268 8 0c sehingga pemisahan gas helium dari gas alam dilakukan dengan cara pengembunan liquefaction sampai gas alam akan mencair sekitar 156 0c dan gas helium terpisah dari gas alam pembuatan ne ar kr dan xe dilakukan dengan proses destilasi bertingkat

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oct 7 2021 disebut gas mulia karena semua unsur pada golongan ini berwujud gas dan memiliki konfigurasi elektron yang sangat stabil sehingga akan sangat sulit untuk bereaksi dengan unsur lainnya unsur unsur gas mulia antara lain adalah helium he neon ne argon ar krypton kr xenon xe dan radon rn

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nov 26 2015 1 wujud gas mulia unsur gas mulia terdapat sebagai gas tak berwarna yang monoatomik ini erat kaitannya dengan struktur elektronoktet dan duplet dari gas mulia sedangkan wujud gas pada suhu kamar disebabkan titik

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apr 16 2017 mempunyai titik didih dan titik leleh yang sangat rendah jari jari atom gas mulia sangat kecil mempunyai elektron valensi 8 khusus untuk helium elektron valensinya 2 sudah stabil sehingga sukar membentuk senyawa dengan unsur lain dalam tidak pernah di temukan senyawa gas mulia gas mulia terdapat sebagai molekul monoatomik

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