

CHAPTER 1 - INTRODUCTION

1.5-1

(a) $A = \pi(0.550)^2 / 4 = 0.2376 \text{ in.}^2$

$$F_u = \frac{P_u}{A} = \frac{28,500}{0.2376} = 120,000 \text{ psi} = 120 \text{ ksi}$$

$$\underline{F_u = 120 \text{ ksi}}$$

(b) $e = \frac{2.300 - 2.030}{2.030} \times 100 = 13.3\%$

$$\underline{e = 13.3\%}$$

(c)

$$A_f = \pi(0.430)^2 / 4 = 0.1452 \text{ in.}^2$$

$$\text{Change} = \frac{A_f - A_u}{A_u} \times 100 = \frac{0.1452 - 0.2376}{0.2376} \times 100 = -38.9\%$$

$$\underline{\text{Reduction} = 38.9\%}$$

1.5-2

$$A = \pi(0.5)^2 / 4 = 0.1963 \text{ in.}^2$$

$$f = \frac{P}{A} = \frac{135}{0.1963} = 68.77 \text{ ksi}$$

$$\epsilon = \frac{\Delta L}{L} = \frac{4.66 \times 10^{-3}}{2} = 2.33 \times 10^{-3}$$

$$E = \frac{f}{\epsilon} = \frac{68.77}{2.33 \times 10^{-3}} = 29,500 \text{ ksi}$$

$$\underline{E = 29,500 \text{ ksi}}$$

1.5-3

$$A = \pi(0.510)^2 / 4 = 0.2043 \text{ in.}^2$$

$$\text{For } P = 250 \text{ lb, } f = \frac{P}{A} = \frac{250}{0.2043} = 1224 \text{ psi}$$

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Intermediate Accounting Donald E. Kieso, Jerry J. Weygandt, Terry D. Warfield, 2010-06-01 US public companies will have to follow International Financial Reporting Standards as of January 1 2011 Weygandt s Financial Accounting IFRS introduces challenging accounting concepts with examples that are familiar to the student while incorporating the new global accounting standards Following the reputation for accuracy comprehensiveness and currency Weygandt guides students through financial accounting and the period of transition for IFRS readiness The text prepares student for the requirements they will follow in the coming years

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uses down to earth practical examples to help students to understand traditional areas of development and links these to the Early Years Learning Framework EYLF and the National Quality Standards NQS Questions throughout the text challenge your students to check their understanding of the content Learning from real life scenarios helps to connect theory to practice and reflective activities reinforce learning

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most modern angiosperms are classified as either monocots or eudicots based on the structure of their leaves and embryos basal angiosperms such as water lilies are considered more primitive because they share morphological traits with both monocots and eudicots

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mar 24 2016 an update of the angiosperm phylogeny group apg classification of the orders and families of angiosperms is presented several new orders are recognized boraginales dilleniales icacinales metteniusiales and vahliales this brings the total number of orders and families recognized in the apg system to 64 and 416 respectively

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in any event in this new classification the basal angiosperms contain three superorders or five if one includes magnolianaes and ceratophyllanaes that are coordinate with the monocots also placed in their own superorder and ten additional superorders eudicots for a

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mar 22 2017 botanical nomenclature in species plantarum linnaeus diagnosed about 7000 species and 1000 genera
linnaeus recognized 24 classes which are based on number union and length of stamens

angiosperm flowering monocots dicots the angiosperms are a well characterized sharply defined group most typically angiosperms are seed plants this separates them from all other plants except the gymnosperms

abstract the synopsis of my classification of the angiospermae that was published in aliso thorne 1968 has been much modified in recent years increased knowledge about many of the families has resulted in a realignment of some of them and reorganization or deletion of some of the higher categories

diversity of angiosperms angiosperms are classified in a single division the anthophyta modern angiosperms appear to be a monophyletic group which means that they originate from a single ancestor

although the taxonomy of the angiosperms is still incompletely known the latest classification system incorporates a large body of comparative data derived from studies of dna sequences it is known as the angiosperm phylogeny group iv apg iv botanical classification system

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