BREVVER GARRISON NOREEN

Introduction to MANAGERIAL ACCOUNTING.

Introduction to MANAGERIAL ACCOUNTING and edition

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INTRODUCTION TO MANAGERIAL ACCOUNTING

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Brewer Garrison Noreen

When it comes to learning accounting, sometimes you need all the help you can get.

even a great textbook can only take you so far. To lend your students that extra helping hand, Jeannie Folk has prepared **Topic Tackler**, a CD-ROM tutorial focusing on those areas in the managerial accounting course that give students the most trouble. Through a carefully arranged, step-by-step sequence of video clips, PowerPoint® slideshows, drag-and-drop and fill-in-the-blank exercises, self-test quizzes, and Website hotlinks, **Topic Tackler** offers help on 2 key topics for every chapter, and keeps students engaged and learning every step of the way. For a demonstration, refer to the Online Information Center at www.mhhe.com/bgn2e.

The Introduction to Managerial Accounting team understands that



Video clips provide enlightening, real-world perspectives from a variety of accounting experts.

PowerPoint® slide shows offer step-by-step coverage of challenging topics and make a great resource for review. Many also feature animations and video.

Fun, **interactive exercises** help
students remember key
terminology.

Self-grading
quizzes cover all of the
main topics, providing an
ideal way to brush up
before a test.

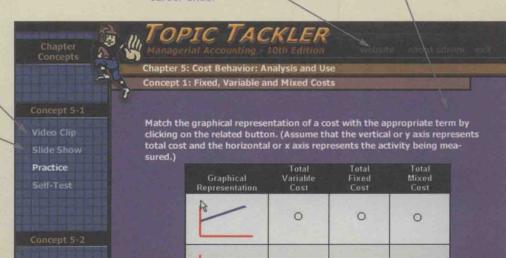
CD-ROM

Concepts appearing in the text that receive additional treatment in Topic Tackler are marked with a unique icon.

Hotlinks to a variety of web resources keep your students "in the know" about the latest developments in accounting, as well as provide access to helpful career sites. This highly engaging study tool will put your students in control of the most fundamental aspects of managerial accounting.

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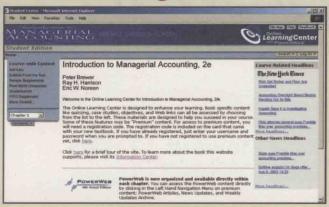
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TECHNOLOGY

Online Learning Center



More and more students are studying online, and more and more instructors rely on the Internet to present and manage course material. That's why the Introduction to Managerial Accounting team has provided the most complete and up-to-date collection of Web resources—whether it be alternate problems and solutions, an online tutorial, or links to professional resources.

Whether you're an instructor building a lesson plan or a student preparing for an exam, the Introduction to Managerial Accounting Online Learning Center is the perfect one-stop resource. Check it out at www.mhhe.com/bgn2e.

Homework Manager

McGraw-Hill/Irwin's Homework Manager pulls problem structures directly from the end-of-chapter material using algorithmic technology, providing a limitless supply of online self-graded practice for students. These problem structures are easily identifiable in the text by the Homework Manager icon. A wealth of textbook-quality questions allows

students to work on fresh problems until they have fully mastered the topic presented. Immediate feedback and scoring helps guide them through their studies. For a demonstration of McGraw-Hill/Irwin's Homework Manager, visit the Online Information Center at www.mhhe.com/bgn2e.

NetTutor™

For students with hectic schedules, **NetTutor™** allows one-on-one assistance completely online and at their convenience. Qualified accounting tutors work with students on specific problems or concepts from the text through the **Live Tutor Center**. Students may submit questions to the Q&A Center at any time and retrieve responses within 24 hours. Additionally, the Archive Center allows students to peruse previously

asked questions and search on particular topics.

For a demonstration of NetTutor™, visit the Online Information Center at

Www.mhhe.com/bgn2e.

Www.mhhe.c

Online Information Center

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- Topic Tackler Demo
- NetTutor™ Demo

Online Instructor Center

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- PowerPoint® files
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Online Tutorial

- Excel Template Exercises
- Link to ALEKS® Math Skills Assessor
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- Downloadable Images from the Text

Other updates will be added throughout the term.

DEDICATION

To our families and to our many colleagues who use this book.

—Peter C. Brewer, Ray H. Garrison, and Eric W. Noreen



about

Peter C. Brewer

is an associate professor in the Department of Accountancy at Miami University, Oxford, Ohio. He holds a BS degree in accounting from Penn State University, an MS degree in accounting from the University of Virginia, and a PhD from the University of Tennessee. He has published numerous articles in a variety of journals including: Management Accounting Research, The Journal of Information Systems, The Journal of Cost Management, Strategic Finance, The Journal of Accountancy, Issues in Accounting Education, The Journal of Corporate Accounting and Finance, The Journal of Business Logistics, and The Supply Chain Management Review.

Professor Brewer is a member of the editorial board of Issues in Accounting Education and has served on the editorial board of The Journal of the Academy of Business Education. He has also served as an associate editor for the Journal of Engineering Valuation and Cost Analysis. He has been recognized on two occasions by the Miami University Associated Student Government for "making a remarkable commitment to students and their educational development." He has taught a continuing professional education (CPE) workshop at the AAA national meeting dealing with teaching case-driven undergraduate management accounting courses and is a leading thinker in undergraduate management accounting curriculum innovation. He is a frequent presenter at various professional and academic conferences and meetings.

Prior to joining the faculty at Miami University, Professor Brewer was employed as an auditor for Touche Ross in the firm's Philadelphia office. He also worked as an internal audit manager for the Board of Pensions of the Presbyterian Church (U.S.A.). He frequently collaborates with companies such as Harris Corporation, Ethicon Endo-Surgery, Square D, Lenscrafters, and Fidelity Investments in a consulting or case writing capacity.

theauthors



Eric W. Noreen

is a globe-trotting academic who has held appointments at institutions in the United States, Europe, and Asia. He is emeritus professor of accounting at the University of Washington.

He received his BA degree from the University of Washington and MBA and PhD degrees from Stanford University. A Certified Management Accountant, he was awarded a Certificate of Distinguished Performance by the Institute of Certified Management Accountants.

Professor Noreen has served as associate editor of The Accounting Review and the Journal of Accounting and Economics. He has numerous articles in academic journals including: the Journal of Accounting Research; The Accounting Review; the Journal of Accounting and Economics; Accounting Horizons; Accounting, Organizations and Society; Contemporary Accounting Research; the Journal of Management Accounting Research; and the Review of Accounting Studies.

Professor Noreen teaches management accounting at the undergraduate and master's levels and has won a number of awards from students for his teaching.

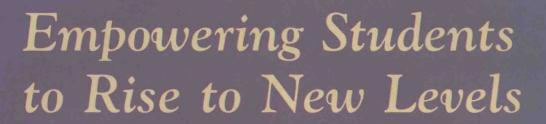


Ray H. Garrison

is emeritus professor of accounting at Brigham Young University, Provo, Utah. He received his BS and MS degrees from Brigham Young University and his DBA degree from Indiana University.

As a certified public accountant, Professor Garrison has been involved in management consulting work with both national and regional accounting firms. He has published articles in *The Accounting Review, Management Accounting*, and other professional journals. Innovation in the classroom has earned Professor Garrison the Karl G. Maeser Distinguished Teaching Award from Brigham Young University.





Most students question whether they will ever use managerial accounting information as managers in an organization or business.

Accounting, 2nd edition, by
Brewer, Garrison, and Noreen will
teach your students not only tools
that everyone from accountants to
marketing managers use, but also the
critical thinking skills necessary to
succeed in business. It is this
combination of understanding,
technique, and the ability to apply it
in the real world that empowers
students to make business decisions
and ascend to new heights.

Introduction to Managerial Accounting, 2nd edition, by BREWER/GARRISON/NOREEN empowers your students to rise to new levels in the following ways:

Concise

Most of your students taking this course will not be accounting majors. Your students want a text that is concise, and that presents material in a clear and readable manner. Your students' biggest concern is making sure they can solve the end-of-chapter problems after reading the chapter. Our market survey indicates that Brewer/Garrison/Noreen achieves this better than any other concise managerial accounting text on the market. Moreover, the authors write all the major supplements, so the text, study guide, test bank, and solutions manual are consistent with one another.

Decision-Making Focus

It is important for your students to understand how managerial accounting information is used to make business decisions, especially if your students plan to be future managers. Brewer/Garrison/Noreen accomplishes this with three types of pedagogy. First, the Managerial Accounting in Action scenarios place students in a real-world business problem and then walk them through how to solve it. Second, the Decision Maker and You Decide boxes put the student in real-world scenarios, both corporate and entrepreneurial, and ask them to apply what they have learned. Lastly, the Building Your Skills cases help your students build the decision-making skills they need.

Contemporary

Today's students rely on technology more than ever. Brewer/Garrison/Noreen provides them with the technological ancillaries they need to succeed in this class. McGraw-Hill/Irwin's Homework Manager uses the web and algorithmically generated problems taken from the text to develop problem-solving skills. Topic Tackler combines video, self-assessment, and PowerPoint lectures that cover the most difficult topics in each chapter. Additionally, NetTutor and the Online Learning Center provide your students with a variety of multimedia aids to help them master managerial accounting.

What makes Brewer/Garrison/Noreen,

Introduction to Managerial Accounting is full of pedagogy designed to make studying productive and hassle-free. On the following pages, you will see the kind of engaging, helpful pedagogical features that make Brewer/Garrison/Noreen a favorite among both teachers and students.

Opening Vignette

Each chapter opens with a two-page Chapter Opener featuring a real-world company.

Author-Written Supplements

The authors write all of the text's major supplements, ensuring a perfect fit between text and supplement. For more information on Brewer/Garrison/Noreen's supplements, see pages xxii and xxiii.

Infographics

New infographics have been included throughout the text to help students visualize key accounting concepts.



2nd edition, such a powerful learning tool?

uct and thus derive more accurate cost data

The pattern of cost distortion shown by the ABC team's findings is quite common. Such distortion can happen in any company that relies on direct labor-hours or machinehours in assigning overhead cost to products and ignores other significant factors affect-

MANAGERIAL 0000 IN ACTION comtek Wrap-Up

The ABC team presented the results of its work in a meeting attended by all of the top managers of Comtek Sound including the president, Sarah Kastler; the production manager, Frank Hines; the marketing manager, Nicole Sermone; and the accounting manager, Tom Frazier. After the formal presentation by the ABC team, the following discussion

Sarah: I would like to personally thank the ABC team for all the work they have done. I am now beginning to wonder about some of the decisions we have made in the past using our old cost accounting system.

Tom: I hope I don't have to remind anyone that I have been warning people about this problem for quite some time

Sarah: No, you don't have to remind us, Tom. I guess we just didn't understand the problem before.

obvious from this activity-based costing information that we had everywards. We thought the competition was pricing below cost on the CD in fact we were overcharging for these units because our costs were over-nd we thought the competition was overpricing DVD units, but in fact our re way too low because our costs for these units were understated. I'll bet etition has really been laughing behind our backs!

can bet they won't be laughing when they see our next bids.









Is E-Tailing Really Easier?

The company art.com sells prints and framed prints over the web. An ABC study identified the following 12 activities carried out in the company

- Website optimization
- 3. Merchandise inventory selection and
- Purchasing and receiving
- 5. Customer acquisition and retention-
- 6. Customer acquisition and retentionrevenue share marketing (affiliate
- 7. Sustain information system
- 8. Sustain business-administration
- 9. Sustain business-production
- 10. Maintain facility-administrative
- 11. Maintain facility-production

For example, the activity "merchandise inventory selection and management" involves scanning, describing, classifying, and linking each inventory item to search options. "Staff must carefully manage each change to the database, which is similar to adding and removing inventory items from the shelf of a store. They annotate added inventory items and upload them into the system, as well as remove obsolete and discontinued items. The number of inventory items for an e-tailer is typically much greater than for a brickand-mortar [store], which is a competitive advantage, but experience shows managing a large inventory consumes substantial resources.

Source: Thomas L. Zeller, David R. Kublank, and Philip G. Makris," How art.com^{1M} Uses ABC to Succeed," *Strategic Finance*, March 2001, pp. 25–31. Reprinted with permission from the IMA, Montvale, NJ, USA, www.imanet.org.

"Managerial Accounting in Action"

These highly praised vignettes depict cross-functional teams working together in real-life settings on products and services that students recognize from their own lives. Students are shown step-by-step how accounting concepts are implemented in organizations and how these concepts are applied to solve everyday business problems. First, "The Issue" is introduced through a dialogue. The student then walks through the implementation process. Finally the "Wrap-Up" summarizes the big picture.

"In Business"

These helpful boxed features offer a glimpse into how real companies use the managerial accounting concepts discussed within the chapter. Every chapter contains from two to nine of these current examples.

Owing to the growing number of service-based companies in business today, the second edition uses a helpful icon to distinguish service-related examples.

What makes Brewer/Garrison/Noreen,

The Decision Maker

feature fosters critical thinking and decision-making skills by providing real-world business scenarios that require the resolution of a business issue. The suggested solution is located at the end of the chapter.

Internet assignments teach students how to find information online and apply it to managerial accounting situations.

Writing assignments encourage your students to practice critical thinking.

The **You Decide** feature challenges students to apply the tools of analysis and make decisions. The suggested solution is found at the end of the chapter.

mayor of the city, Stephen Goldsmith, explained: "Introducing competition and privatization to government services requires real cost information. You can't compete out if you are using fake money." When city workers became aware of the costs of carrying out activities such as filling potholes in streets and were faced with the possible transfer of such tasks to the private sector, they became highly motivated to reduce costs. Instead of going out to fill potholes with a five- or six-man repair crew, plus a supervisor, they started doing the same job with a three- or four-man crew without a supervisor. The number of politically appointed supervisors, which had stood at 36 for 75 employees, was slashed by half.

Source: Robert S. Kaplan and Robin Cooper, Cost & Effect: Using Integrated Cost Systems to Drive Profitability and Performance, Harvard Business School Press, Boston, 1998, pp. 245–250.

Legal Firm Business Manager

You have been hired to manage the business aspects of a local legal firm with a staff of 6 attorneys, 10 paralegals, and 5 staffpersons. Clients of the firm are billed a fixed amount per hour of attorney time. The fixed hourly charge is determined each year by dividing the total cost of the legal office for the preceding year by the total billed hours of attorney time for that year. A markup of 25 percent is then added to this average cost per hour of billed attorney time to provide for a profit and for inflation.

The firm's partners are concerned because the firm has been unprofitable for several years. The firm has been losing its smaller clients to other local firms—largely because the firm's fees have become uncompetitive. And the firm has been attracting larger clients with more complex legal problems from its competitors. To serve these demanding larger clients, the firm must subscribe to expensive on-line legal reference services, hire additional paralegals and staffpersons, and lease additional office space.

What do you think might be the reason for the unprofitable operations in recent

What do you think might be the reason for the unprofitable operations in recer years? What might be done to improve the situation for the coming year? DECISION MAKER

- Which of the following statements is false? (You may select more than one answer.)
 a. Activity-based costing systems usually shift costs from low-volume products to
- Activity-based costing systems usually shift costs from low-volume products high-volume products.
 Benchmarking can be used to identify activities with the greatest potential for
- Benchmarking can be used to identify activities with the greatest potential for improvement.

CONCEPT CHECK

Problems of Overhead Application

11

Note that since the Manufacturing Overhead account has a debit balance, Manufacturing Overhead must be credited to close out the account. This has the effect of increasing Cost of Goods Sold for April to \$123,500:

 Unadjusted cost of goods sold [from entry (13)]
 \$118,500

 Add underapplied overhead [entry (14) above]
 5,000

 Adjusted cost of goods sold
 \$123,500

After this adjustment has been made, Rand Company's income statement for April will appear as shown earlier in Exhibit 2–12.

Remaining Balance in the Overhead Account

The simplest method for disposing of any balance remaining in the Overhead account is to close it out to Cost of Goods Sold. If there is a debit balance (that is, overhead has been underapplied), the entry to dispose of the balance would include a debit to Cost of Goods Sold. That debit would increase the balance in the Cost of Goods Sold account. On the other hand, if there is a credit balance, the entry to dispose of the balance would include a credit to Cost of Goods Sold. That credit would decrease the balance in the Cost of Goods Sold account. If you were the company's controller, would you want a debit balance, a credit balance, or no balance in the Overhead account at the end of the period?

YOU

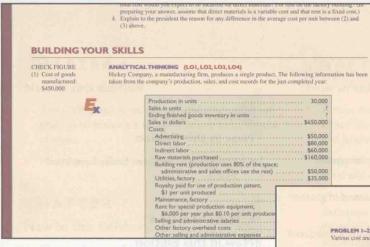
A General Model of Product Cost Flows

The flow of costs in a product costing system is presented in the form of a T-account model in Exhibit 2–14. This model applies as much to a process costing system as it does to a job-order costing system. Examination of this model can be very helpful in understanding how costs enter a system, flow through it, and finally end up as Cost of Goods Sold on the income statement.

Multiple Predetermined Overhead Rates

Our discussion in this chapter has assumed that there is a single predetermined overhead rate for an entire factory called a plantwide overhead rate. This is a fairly common practice—particularly in smaller companies. But in larger companies, multiple predetermined overhead rates are often used. In a multiple predetermined overhead rate system, each production department may have its own predetermined overhead rate. Such a system, while more complex, is considered to be more accurate, since it can reflect differences across departments in how overhead costs are incurred. For example, over-

2nd edition, such a powerful learning tool?



Spreadsheets have become an increasingly common tool for managerial accountants; therefore, selected exhibits and data appear as Microsoft Excel® screen captures.

End-of-Chapter Material

Our problem and case material continues to conform to AECC and AACSB recommendations and makes a great starting point for class discussions and group projects. Other helpful features include:

PROBLEM 1-22 Financial Statements; Cost Behavior (LO3, LO4, LO5)
Various cost and sales data for Jaskot Company for the just completed year follow

9	File Edit Yew Doort Format Jook Data !	Mindow Help	_ 8 ×
Arial		* 2 2 A	
1110	D18 - &		
	A	В	-
1	Finished goods inventory, beginning	\$16,000	
2	Finished goods inventory, ending	\$14,000	
3	Depreciation, factory	\$21,000	
4	Administrative expenses	\$45,000	
5	Utilities, factory	\$12,000	
6	Maintenance, factory	\$26,000	
7	Supplies, factory	\$6,000	
8	Insurance, factory	\$7,000	
9	Purchases of raw materials	\$72,000	
10	Raw materials inventory, beginning	\$5,000	
11	Raw materials inventory, ending	\$8,000	
12	Direct labor	\$61,000	
13	Indirect labor	\$32,000	
14	Work in process inventory, beginning	\$13,000	
15	Work in process inventory, ending	\$14,000	
16	Sales	\$355,000	_
17	Selling expenses	\$61,000	
18			*
14 .4	* #\Sheet1/Sheet2/Sheet3/		*

CHECK FIGURE

While smooting at the controls of his Pepper Six airplane, Dunse P. Sluggard leaned heavily against the door; suddenly, the door flew open and a startled Bunse tumbled out. As he parachated to the ground, Dunse watched helplessly as the empty plane smashed into Openers Products' plant and administrative

argin rate has been aver, or save to year. A state are well as the categories are save as a categories and are all," cried Mercedes, "My summary sheet lists the sum of direct labor of direct materials at \$510,000 for the year, and it says that our goods available for sale to customers this are has totaled \$960,000 at cost. Now if we just knew the amount of raw materials purchased so far

"I know that figure," yelled Ford. "It's \$420,000! The purchasing agent gave it to me in our planning

meeting yesterday."

"Pantastic," shoused Mercedes. "We'll have our claim ready before the day is over!"

To file a claim with the insurance company, Operes Products must determine the amount of cost in its inventories as of the date of the accident. You may assume that all of the materials used in production during the company of the date of the accident. You may assume that all of the materials used in production during the company of the date of the accident.

ETHICS CHALLENGE (LO2)
The top management of General Electronics, Inc., is well known for "managing by the numbers," With an eye on the company's CEO (chief executive Officer) sets target profits at the beginning of the year for each of the company's divisions. The CEO has stated the policy as follows: "I won't interfere with operations in the divisions.1 am available for advice, but the division vice presidents are free to do anything they want so long as they hit the target profits for

the year."

In November, Stan Richtart, the vice president in charge of the Cellular Telephone Technologies Division, saw that making the current year's target profit for his division was going to be very difficult. Among other actions, he directed that discretionary expenditures be delayed until the beginning of the new year. On December 30, he was angend to discover that a warbnouse clerk had ordered 535000 of cellular telephone parts earlier in December even though the parts weren't really needed by the assembly department until January or February. Contrary to common accounting practice, the General Electronies, Inc., Accounting Policy Manual states that such parts are to be recorded as an expense when delivered. To avoid recording the expense, Air. Richard saked that the order be canceled, but the purchasing department exported that the parts had already been delivered and the supplier would not accept returns. Since the bill had



uement.
ed the equivalent of 12,000 units of product during the year just completed
cost per unit for direct materials? What was the average cost per unit for

cial Statements; Cost Behavior (LO3, LO4, LO5)

Log Passember 31 are provided below for Rolling Company;

elling and administrative salaries	\$55,000
nsurance, factory	\$6,000
Julicies, factory	\$10,000
urchases of raw materials	\$76,000
ndirect labor	\$3,000
Direct labor	
dvertising expense	\$26,000
leaning supplies, factory	
ales commissions	\$33,000
ent, factory building	
faintenance, factory	\$15,000



Ethics assignments serve as a reminder that good conduct is essential in business. Group projects can be assigned either as homework or as in-class discussion projects.

What's new about

PROLOGUE

New in this Edition

- The TOC section has been completely rewritten.
- The role of the CFO is discussed in greater detail.
- Links between e-commerce and subsequent chapters are briefly laid out.
- Many new In Business boxes have been added.

CHAPTER I

New in this Edition

- The illustration of Inventory Flows in Exhibit
 1–5 has been improved.
- The alternative approach to computation of cost of goods sold has been eliminated.
- New material dealing with ethical issues in the determination of product and period costs has been added.
- Many new In Business boxes have been added.

CHAPTER 2

New in this Edition

- Better illustration of job-order costing vs. process costing has been added.
- Many new In Business boxes have been added.

CHAPTER 3

New in this Edition

Many new In Business boxes have been added.

CHAPTER 4

New in this Edition

- Subtle changes have been made in the format of the production report to improve its readability.
- Rounding has been eliminated as an issue in all examples and end-of-chapter materials by ensuring that all computations carried out to the nearest whole cent yield exact answers.

CHAPTER 5

New in this Edition

- Scattergraph plots now precede the high-low method.
- We now refer to the method for estimating fixed and variable costs based on the visual fit to the scattergraph plot as the "quick-and-dirty" method. The emphasis in the scattergraph section of the text is now on diagnosis of cost behavior patterns rather than as a way to estimate fixed and variable costs.
- The term "regression line" is now reserved for the line that is computed by least-squares regression.

the second edition?

CHAPTER 6

New in this Edition

- The CVP graph is introduced before break-even analysis to provide a better intuitive basis for the analysis.
- · Many new In Business boxes have been added.

CHAPTER 7

New in this Edition

- The mechanics of how to construct the various schedules in the master budget are more thoroughly explained in the text.
- · Many new In Business boxes have been added.

CHAPTER 8

New in this Edition

- A new exhibit, Exhibit 8–1, provides an overview of the variance reporting process.
- · Several new In Business boxes have been added.
- The variances, and their computations, are more fully explained.

CHAPTER 9

New in this Edition

- Improved illustration of static vs. flexible budgets has been added.
- · New In Business boxes have been added.

CHAPTER 10

New in this Edition

· New In Business boxes have been added.

CHAPTER II

New in this Edition

- A new, easy-to-understand example has been added illustrating the identification of relevant and irrelevant costs.
- Material dealing with the reconciliation of the total and differential approaches has been added.
- The section dealing with equipment replacement decisions has been eliminated. This subject is more appropriately covered in the capital budgeting chapter.
- · Many new In Business boxes have been added.

CHAPTER 12

New in this Edition

- · Many new In Business boxes have been added.
- The present value tables have been expanded to include all rates of return between 5% and 25%.

CHAPTER 13

New in this Edition

Many new In Business boxes have been added.

CHAPTER 14

New in this Edition

 Many new In Business boxes have been added.



Can **technology** really help students and professors in the learning process?







Today, nearly 200,000

college instructors use the Internet in their courses. Some are just getting started, while others are ready to embrace the very latest advances in educational content delivery and course management.

That's why we at McGraw-Hill/Irwin offer you a complete range of digital solutions. Your students can use **Introduction to Managerial Accounting's** complete Online Learning Center, NetTutor, and PowerWeb on their own, or we can help you create your own course website using McGraw-Hill's PageOut.

In addition to web-based assets, Introduction to Managerial Accounting boasts Topic Tackler, a CD-ROM that offers special chapter-by-chapter assistance for the most demanding managerial accounting topics. With McGraw-Hill's Presentation Manager CD-ROM, instructors have access to nearly every crucial supplement, from the instructor's resource manual to the test bank, in both print and electronic media.

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How can I easily integrate web resources into my course?

ONLINE LEARNING CENTER (OLC)

More and more students are studying online. That's why we offer an Online Learning Center (OLC) that follows Introduction to Managerial Accounting chapter by chapter. It doesn't require any building or maintenance on your part. It's ready to go the moment you and your students type in the URL.



As your students study, they can refer to the OLC for such benefits as:

- Self-grading quizzes
- PowerPoint presentations
- Internet exercises
- Alternate problems
- Chapter outlines
- Practice exams
- Online tutoring (NetTutor)
- Excel spreadsheets
- · Links to URLs referenced in the text

A secured Instructor Resource Center stores your essential course materials to save you prep time before class. The Instructor's Manual, Solutions, PowerPoint, and sample syllabi are now just a couple of clicks away. You will also find useful packaging information and transition notes.

The OLC also serves as a doorway to other technology solutions like PageOut, which is free to textbook adopters.