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MICROECONOMICS

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Fifth Edition

Paul Krugman

Graduate Center of the City University of New York

Robin Wells



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About the Authors



Ligaya Franklin

PAUL KRUGMAN, recipient of the 2008 Nobel Memorial Prize in Economic Sciences, is a faculty member of the Graduate Center of the City University of New York, associated with the Luxembourg Income Study, which tracks and analyzes income inequality around the world. Prior to that, he taught at Princeton University for 14 years. He received his BA from Yale and his PhD from MIT. Before Princeton, he taught at Yale, Stanford, and MIT. He also spent a year on the staff of the Council of Economic Advisers in 1982-1983. His research has included pathbreaking work on international trade, economic geography, and currency crises. In 1991, Krugman received the American Economic Association's John Bates Clark medal. In addition to his teaching and academic research, Krugman writes extensively for nontechnical audiences. He is a regular op-ed columnist for the *New York Times*. His best-selling trade books include *End This Depression Now!*, *The Return of Depression Economics and the Crisis of 2008*, a history of recent economic troubles and their implications for economic policy, and *The Conscience of a Liberal*, a study of the political economy of economic inequality and its relationship with political polarization from the Gilded Age to the present. His earlier books, *Peddling Prosperity* and *The Age of Diminished Expectations*, have become modern classics.

ROBIN WELLS was a Lecturer and Researcher in Economics at Princeton University. She received her BA from the University of Chicago and her PhD from the University of California at Berkeley; she then did postdoctoral work at MIT. She has taught at the University of Michigan, the University of Southampton (United Kingdom), Stanford, and MIT.

Vision and Story of Microeconomics

This is a book about economics as the study of what people do and how they interact, a study very much informed by real-world experience. These words, this spirit, have served as a guiding principle for us in every edition.

While we were driven to write this book by many small ideas about particular aspects of economics, we also had one big idea: an economics textbook should be built around narratives, many of them pulled from real life, and it should never lose sight of the fact that economics is, in the end, a set of stories about what people do.

Many of the stories economists tell take the form of models—for whatever else they are, economic models are stories about how the world works. But we believe that student understanding of and appreciation for models are greatly enhanced if they are presented, as much as possible, in the context of stories about the real world that both illustrate economic concepts and touch on the concerns we all face living in a world shaped by economic forces.

You'll find a rich array of stories in every chapter, in the chapter openers, Economics in Actions, For Inquiring Minds, Global Comparisons, and Business Cases. As always, we include many new stories and update others. We also integrate an international perspective throughout, more extensively than ever before. It starts with a new introduction and an opening story on China's Pearl River Delta that sets the stage for new attention to China's ascendance in the global economy. An overview of the types of narrative-based features in the text is on p. x.

We also include pedagogical features that reinforce learning. For example, each major section ends with three related elements devised with the student in mind: (1) the Economics in Actions: a real-world application to help students achieve a fuller understanding of concepts they just read about; (2) a Quick Review of key ideas in list form; and (3) Check Your Understanding self-test questions with answers at the back of the book. Our thought-provoking end-of-chapter problems are another strong feature. The Work It Out feature appears in all end-of-chapter problem sets, offering students online tutorials that guide them step-by-step through solving key problems. With the Fifth Edition, a new feature, Discovering Data exercises, offers students the opportunity to use interactive graphs to analyze interesting economic questions. An overview of the text's tools for learning is on p. xi.

Students also benefit from the impressive set of online resources that are linked to specific chapter content. These include several exciting new digital features as well as adaptive quizzing, tutorials, interactive activities, graphing questions, and dataanalysis questions. All have been devised with the goal of supporting instructor teaching and student learning in principles of economics courses.

We hope your experience with this text is a good one. Thank you for introducing it into your classroom.

Paul Krugman

Robin Wells

Engaging Students in the Study of Microeconomics

We are committed to the belief that students learn best from a complete textbook program built around narratives, steeped in real life and current events, with a strong emphasis on global matters and with proven technology that supports student success.

Narrative Approach

This is a textbook built around narratives and stories, many pulled from real life. In every chapter, stories are used to teach core concepts and motivate learning. We believe that the best way to introduce concepts and reinforce them is through memorable, real-world stories; students simply relate more easily to them.

👂 Global Focus

This book is unrivaled in the attention paid to global matters. We have thoroughly integrated an international perspective into the text, in the numerous applications, cases, and stories and, of course, in the data-based Global Comparison feature.

Technology That Builds Success

Microeconomics is not just a textbook. It has evolved to become a complete program with interactive features designed and built to extend the goals of the

text. This program encourages even stronger student engagement, mastery of the material, and success in the course.

interactive activity Look for this Interactive Activity icon throughout the text to find materials that are enhanced by our online

tools.

What's New in the Fifth Edition?

Technology that offers the best value and price. Because students' needs are changing, our most powerful learning option is now our most affordable. SaplingPlus is a new digital solution that combines LearningCurve with an integrated e-Book, robust homework, improved graphing, and fully digital end-of-chapter problems including Work It Outs. And if print is important, a package with a loose-leaf copy of the text is only a few dollars more.

Discovering Data exercises help students interpret, analyze, share,

and report on data. Students develop data literacy by completing these new interactive exercises, step-by-step problems that have students use up-to-the-minute FRED data.

Current events framed by the world's best communicators of

economics. No other text stays as fresh as this one. The authors—who have explained economics to millions through trade books and newspaper columns—offer a new online feature, News Analysis, that pairs journalistic takes on pressing issues with questions based on Bloom's taxonomy. This complements the text's unparalleled coverage of current topics: sustainability, the economic impact of technology, pressing policy debates, and much more.

A richer commitment to broadening students' understanding of the

global economy. With unparalleled insight and clarity, the authors use their hallmark narrative approach to take students outside of the classroom and into our global world, starting in the Introduction with a new opening story on the economic transformation in China's Pearl River Delta. The global focus is carried throughout in chapter openers, Economics in Action, Business Cases, and Global Comparisons. There is now more on the ascendance of China's economy, along with real-world stories about the economies of Europe, Bangladesh, and Japan, among others.

Engaging Students with a Narrative Approach

2

Economic Models: Trade-offs and Trade

FROM KITTY HAWK TO DREAMLINER

BOEING'S 787 DREAMLINER was the result of an aerodynamic revolution—a super-efficient airplane designed to cut airline operat revolution—a super-efficient airplane designed to cut ainline operat-ing costs and the first to use superlight composite materials. To ensure that the Desamler was sufficiently lightweight and aerodynamic, it underwent over 15,000 hours of wind tunnel tests, result-ing in subtle design changes that improved its performance, making it



e fuel efficient and less pollutant en itting than i

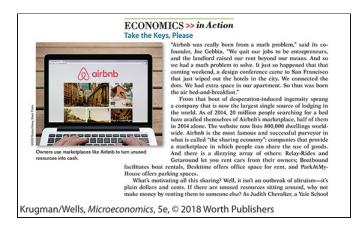
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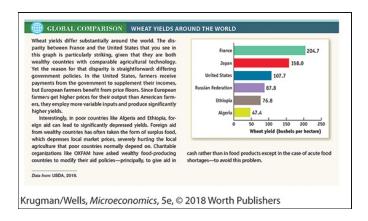
WHAT YOU WILL LEARN

 What are economic models and why are they so important to economists? How do three simple models—the pro-comparative advantage, and the circul understand how modern economies we understand now modern economies work? Why is an understanding of the difference betwee economics and normative economics important f application of economic principles? etimes disagree

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To engage students, every chapter begins with a compelling story. **What You Will Learn** questions help students focus on key concepts in the chapter.

So students can immediately see economic concepts applied in the real world, **Economics in Action** applications appear throughout chapters.

To provide students with an international perspective, the **Global Comparison** feature uses data and graphs to illustrate why countries reach different economic outcomes.

So students can see key economic principles applied to real-life business situations, each chapter concludes with a Business Case.

Engaging Students with Effective Tools for Learning



For those who purchased WWII ration coupons illegally, the right to consumer surplus had a steep

>> Quick Review

gets from buying a good.

The demand curve for a good

is determined by each potential

consumer's willingness to pay. Individual consumer surplus is

the net gain an individual consumer

The total consumer surplus in

a given market is equal to the area

below the market demand curve but above the price.

· A fall in the price of a good

increases consumer surplus

through two channels: a gain to

at the original price and a gain to consumers who are persuaded to

consumers who would have bought

buy by the lower price. A rise in the

ECONOMICS >> in Action When Money Isn't Enough

The key insight we get from the concept of consumer surplus is that purchases yield a net benefit to the consumer because the consumer typically pays a price less than his or her willingness to pay for the good. Another way to say this is that the right to buy a good at the going price is a valuable thing in itself.

Most of the time we don't think about the value associated with the right to buy a good. In a market economy, we take it for granted that we can buy whatever we want, as long as we are willing to pay the market price.

But that hasn't always been true. For example, during World War II the demands of wartime production created shortages of consumer goods when these goods were sold at prewar prices. Rather than allow prices to rise, government officials in many countries created a system of rationing. To buy sugar, meat, coffee, gasoline, and many other goods, you not only had to pay cash; you also had to present stamps or coupons

from books issued to each family by the government. These pieces of paper, which represented the right to buy goods at the government-regulated price, quickly became valuable commodities in themselves.

As a result, illegal markets in meat stamps and gasoline coupons sprang into existence. Moreover, criminals began stealing coupons and even counterfeiting stamps

The funny thing was that even if you had bought a gasoline coupon on the illegal market, you still had to pay to purchase gasoline. So what you were buying on the illegal market was not the good but the right to buy the good at the government-regulated price. That is, people who bought ration coupons on the illegal market were paying for the right to get some consumer surplus.

>> Check Your Understanding 4-1

Solutions appear at back of boo

Consider the market for cheese-stuffed jalapeno peppers. There are two consum- ers, Casey and Josey, and their willing-	Quantity of peppers	Casey's willingness to pay	
ness to pay for each pepper is given in the	1st pepper	\$0.90	
accompanying table. (Neither is willing to consume more than 4 peppers at any	2nd pepper	0.70	
price.) Use the table (i) to construct the	3rd pepper	0.50	
demand schedule for peppers for prices of	4th pepper	0.30	
\$0.00, \$0.10, and so on, up to \$0.90, and	when the orige	of a mannam la	

Josey's

to pay

\$0.80

0.60

0.40

0.30

(ii) to calculate the total consumer surplus when the price of a pepper is \$0.40.

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1. Consider the man

To reinforce learning, sections within chapters conclude with three tools: an application of key concepts in the **Economics in Action**; a **Quick Review** of key concepts; and a comprehension check with **Check Your Understanding** questions. Solutions for these questions appear at the back of the book.

Pitfalls teach students to identify and avoid common misconceptions about economic concepts.

Discovering Data exercises offer students the opportunity to use interactive graphs to analyze interesting economic questions.

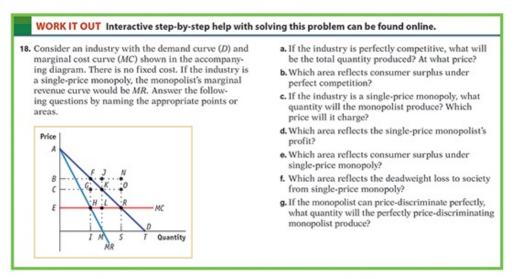
End-of-chapter **Work It Out** skill-building problems provide interactive step-by-step help with solving select problems from the textbook.

PITFALLS

DEMAND VERSUS QUANTITY DEMANDED When economists say "an increase in demand," they mean a rightward shift of the demand curve, and when they say "a decrease in demand," they mean a leftward shift of the demand curve—that is, when they're being careful.

In ordinary speech most people, including professional economists, use the word demond casually. For example, an economist might say "the demand for air travel has doubled over the past 15 years, partly because of falling airfares" when he or she really means that the quantity demonded has doubled. It's OK to be a bit sloppy in ordinary conversation. But when you're doing economic analysis, it's important to make the distinction between changes in the quantity demanded, which involve movements along a demand curve, and shifts of the demand curve (see Figure 3-3 for an illustration). Sometimes students end up writing something like this: "If demand increases, the price will go up, but that will lead to a fall in demand, which pushes the price down ...," and then go around in circles. If you make a clear distinction between changes in demand, which mean shifts of the demand curve, and changes in quantity demanded, which means movement along the demand curve, you can avoid a lot of confusion.

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- 13. For this Discovering Data exercise, use FRED (fred.stlouisfed.org) to create a graph comparing exports from California, Florida, Michigan, Pennsylvania, and Washington to China. In the search bar enter "Value of exports to China from California" and select the subsequent series. Follow the steps below to add the remaining states:
 - Select "Edit Graph," under "Add Line" enter "Value of exports to China from Florida," then select "Add data series."
 - Repeat step i for Michigan, Pennsylvania, and Washington.
 - iii. In the date bar start the graph with 2002-01-01.
 - **a.** As of 2012, which two states exported the most goods to China? What were the dollar values of those exports? Which three states exported the least to China?

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Engaging Students with Technology

The technology for this new edition has been developed to spark student engagement and improve outcomes while offering instructors flexible, highquality, research-based teaching tools for teaching this course.

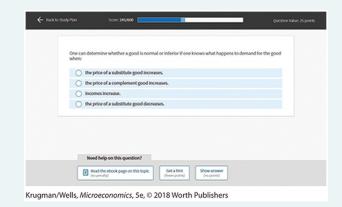
Sapling Plus

NEW! Sapling Plus combines powerful multimedia resources with an integrated e-Book and the robust problem library of Sapling Learning, creating an extraordinary new learning resource for students. Online homework helps students get better grades with targeted instructional feedback tailored to the individual. And it saves instructors time preparing for and managing a course by providing personalized support from a PhD or Master's level colleague trained in Sapling's system.

NEW! Pre-Lecture Tutorials foster basic understanding of core economic concepts before students ever set foot in class. Developed by two pioneers in active-learning methods—Eric Chiang, Florida Atlantic University, and José Vazquez, University of Illinois at Urbana-Champaign this resource is part of the SaplingPlus learning path. Students watch Pre-Lecture videos and complete Bridge Question assessments that prepare them to engage in class. Instructors receive data about student comprehension that can inform their lecture preparation.

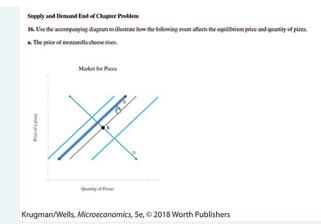
<< LearningCurve Adaptive Quizzing

Embraced by students and instructors alike, this incredibly popular and effective adaptive quizzing engine offers individualized question sets and feedback tailored to each student based on correct and incorrect responses. Questions are hyperlinked to relevant e-Book sections, encouraging students to read and use the resources at hand to enrich their understanding.



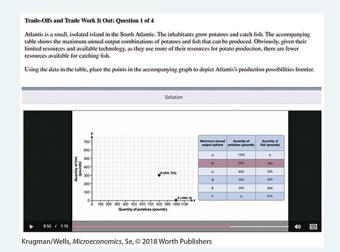
NEW! Graphing Questions >>

Powered by improved graphing, multi-step questions paired with helpful feedback guide students through the process of problem solving. Students are asked to demonstrate their understanding by simply clicking, dragging, and dropping a line to a predetermined location. The graphs have been designed so that students' entire focus is on moving the correct curve in the correct direction, virtually eliminating grading issues for instructors.



Work It Out >>

These skill-building activities pair sample end-of-chapter problems with targeted feedback and video explanations to help students solve problems stepby-step. This approach allows students to work independently, tests their comprehension of concepts, and prepares them for class and exams.



NEW! Discovering Data Exercises help students interpret and analyze data by completing interactive, stepped-out exercises that use up-tothe-minute FRED data. These exercises help students develop data literacy and synthesizing skills, encourage economic analysis based on recent trends, and build an understanding of the broader economy.

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	168							
	128						Value of Exports to China from California:	2012 13,122,323,451
Collars	88				1	/	Value of Exports to China from Florida:	2012 1,180,744,363
	48	_		/			Value of Exports to China from Michigan:	2012 3,086,949,527
							Value of Exports to China from Pennsylvania:	2012 2,776,119,031
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			higan: \$			Valu	e of exports from Penn	advania: \$

Powerful Support for Instructors

FOR ASSESSMENT

Test Bank Fully revised for the Fifth Edition, the Test Bank, authored by Syon Bhanot, Swarthmore College, and Kevin Beckwith, Salem State University, contains multiple-choice and short-answer questions to help instructors assess students' comprehension, interpretation, and ability to synthesize.

End-of-Chapter and Work It Out Questions The in-text end-of-chapter problems have been converted to a multiple-choice format accompanied by answer-specific feedback. **Work It Out** activities walk students through each step of solving an end-of-chapter problem using choice specific feedback and video explanations for each step.

Homework Assignments Each chapter concludes with homework of various question types, including graphing questions featuring our updated graphing

player, providing instructors with a curated set of multiple-choice and graphing questions that are easily assigned for graded assessment.

Practice Quizzes Designed to be used as a study tool for students, Practice Quizzes allow for multiple attempts as students familiarize themselves with chapter content.

ADDITIONAL RESOURCES

A Gradebook This useful resource offers clear feedback to students and instructors on individual assignments and on performance in the course.

LMS integration Included so that online homework is easily integrated into a school's learning management system and that an instructor's Gradebook and roster are always in sync.

Instructor's Resource Manual Authored by Tori Knight, Carson-Newman University, this manual offers instructors teaching materials and tips to enhance the classroom experience, along with chapter objectives, outlines, and other ideas.

Solutions Manual Prepared by the authors of the text, this manual offers detailed solutions to all of the text's end-of-chapter problems and the Business Case questions.

Interactive Presentation Slides These brief, interactive, and visually interesting slides, authored by Solina Lindahl, California Polytechnic State University, San Luis Obispo, are designed to hold students' attention in class with graphics and animations demonstrating key concepts, real-world examples, hyperlinks to relevant outside sources (including videos), and opportunities for active learning.

Additional technology resources available to support Krugman and Wells

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For longtime users, a new version of **LaunchPad** is available with this Fifth Edition. It includes an interactive e-Book, pre-built units offering instructors ready-made assignments with LearningCurve quizzes, graded homework, graphing questions, and Work It Out skill-building activities.



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FlipItEcon FlipItEcon.com

FlipltEcon is available as a standalone resource or integrated with the SaplingPlus learning path. Developed by two pioneers in active-learning methods—Eric Chiang, Florida Atlantic University, and José Vazquez, University of Illinois at Urbana-Champaign—Fliplt gets students actively involved in learning economics in a fresh way. Students watch Pre-Lectures and complete Bridge Question assessments before class, helping them prepare for class so they can be engaged. Fliplt also gives instructors data about student comprehension that can inform their lecture preparation.

WHAT'S NEW IN THIS EDITION?

There are 39 new opening stories, Business Cases, and Economics in Action applications in this edition—fully one-third of these stories are new, ensuring that the Fifth Edition is truly current and relevant. Many other stories have been updated and refreshed.



Ryan Pyle/Getty Images

4 New Opening Stories

A Day in the Megacity Big City, Not So Bright Ideas Making Decisions in Good Times and Bad Regulators Give Bridgestone a Flat Tire



Daniel Acker/Bloomberg via Getty Images

12 New Business Cases

How Priceline Revolutionized the Travel Industry Uber Gives Riders a Lesson in Supply and Demand Ticket Prices and Music's Reigning Couple, Jay-Z and Beyoncé Why Taxi Medallion Lenders Are Feeling Like Roadkill Microsoft's Internal Carbon Tax
Freedom from Fries
Bricks-and-Mortar Retailers Go Toe to Toe with Mobile Shopping Apps
The Dollar Shave Club: How to Avoid a Case of Razor Burn
Snapchat and Instagram: Not Your Grandmother's Social Networking Platforms
Ruby Hill Farm: The ACA and Freedom to Farm Walmart Gives a Hike
PURE—An Insurance Company That Withstands Hurricanes



emin kuliyev/Shutterstock

23 New Economics in Action Applications

The Fundamental Law of Traffic Congestion Economists: What Are They Good For? Why Price Controls in Venezuela Proved Useless China and the Global Commodities Glut of 2016 State Tax Choices Solar Disputes Airbnb and the Rising Cost of Privacy Biotech: The World's Biggest Loser Is Salmon a Luxury? It Depends Lower Gasoline Prices and the Urge to Splurge Finding the Optimal Team Size How the Sharing Economy Reduces Fixed Cost Farmers Know How The Monopoly That Wasn't: China and the Market for Rare Earths The (R)Evolution of the American High-Speed Internet Market Is It a Beer-opoly or Not? The Case Against Chocolate Producers Melts The Demise of OPEC Abbondanza! Hits and Flops in the App Store American Infrastructure Gets a D+ Twenty-First Century Piracy Help Wanted at Flex!

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