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Strategies For Creative Problem Solving (3rd Edition)



Synopsis

A Tested, Proven Approach to Problem Solving – Updated with New Material and Current, Real-Life Examples – Strategies for Creative Problem Solving, Third Edition, will help you hone your creative skills and apply those skills to solve nearly any problem. Drawing on National Science Foundation-funded, advanced research that studied problem-solving techniques in all areas of modern industry, this book presents a comprehensive, systematic problem-solving framework. Through hands-on techniques and exercises drawing on realistic examples, you will learn how to approach an ill-defined problem, identify the real problem, generate and implement the best solution, evaluate what you've learned, and build on that knowledge. This third edition has been updated and revised, further enhancing its value for engineers, technical practitioners, students, and anyone who wants to improve their problem-solving skills. Updates include:

- More than twenty-five new examples based on recent, real-world events and topics that illustrate the various problem-solving techniques
- Expanded coverage of critical thinking and reasoning
- An introduction to structured critical reasoning
- New discussion of managing complex change
- Expanded and improved explanations of the components of problem-solving strategies

The first edition of this book earned ASEE's 1996 Meriam-Wiley Distinguished Author Award, and now it's more focused and useful than ever. A Companion Web Site – The book's companion Web site (www.engin.umich.edu/scps) is a valuable resource for students and instructors. The site contains:

- Interactive Computer Modules: Seven simulations linked to the book's content and designed to deepen your expertise with every stage of the problem-solving process
- Summary Notes: Chapter-specific material that highlights important points in each chapter – excellent for classroom presentations and concept review
- Professional Reference Shelf: Additional examples and problem-solving materials
- Additional Study Materials: Course syllabi and Web links to related material

Book Information

Paperback: 356 pages

Publisher: Prentice Hall; 3 edition (October 18, 2013)

Language: English

ISBN-10: 013309166X

ISBN-13: 978-0133091663

Product Dimensions: 7.9 x 1 x 9.9 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 14 customer reviews

Best Sellers Rank: #38,482 in Books (See Top 100 in Books) #21 in Books > Textbooks > Engineering > Chemical Engineering #34 in Books > Engineering & Transportation > Engineering > Chemical #66 in Books > Textbooks > Social Sciences > Psychology > Cognitive Psychology

Customer Reviews

H. Scott Fogler is the Vennema Professor of Chemical Engineering and Thurnau Professor at the University of Michigan, and a past president of the American Institute of Chemical Engineers. He has chaired ASEE's Chemical Engineering Division and earned the Warren K. Lewis Award from AIChE for contributions to chemical engineering education and the 2010 Malcom E. Pruitt Award from the Council for Chemical Research. He is the author of the classic Elements of Chemical Reaction Engineering, Fourth Edition (Prentice Hall, 2006), and Essentials of Chemical Reaction Engineering (Prentice Hall, 2011). Steven E. LeBlanc is executive associate dean for academic affairs and professor of Chemical Engineering at the University of Toledo. He has served as the chairman of the ASEE Chemical Engineering Division and as a co-chair of the 2007 ASEE Chemical Engineering Summer School for Faculty. Benjamin R. Rizzo is a chemical engineering graduate of the University of Michigan and currently is a production engineer for Shell Oil, working on Unconventional Reservoir Optimization.

I really liked this text book and it broke down processes very well. I rented it for my class and really wish I would have been able to buy it because it is definitely handy to refer to for problem solving techniques.

I love this book. I took a class in college that used it (one of the author's was my professor). It is not a textbook, but not a novel. It is something in the middle with lots of real world examples.

I like this course book, and I wish it were available in ePub or some other electronic format. One star off for no eBook ~~if~~ not even offered from the book purchaser via a publisher bundle. Hello, it is 2016!!!

I expected this to be more difficult to follow being based on Engineering. However, they keep it interesting with examples.

Decent read. No regrets. Re-sold it within two weeks.

Book arrived within promised timeframe. Strategies is the perfect tool for analyzing and solving problems. Recommend this book for business majors.

Great quality book, fast delivery

good condition textbook

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