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Strategies for Creative Problem Solving (3rd Edition)

H. Scott Fogler, Steven E. LeBlanc, Benjamin Rizzo

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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.

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

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