



Strategies for Creative Problem-Solving

By H. Scott Fogler, Steven E. LeBlanc

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Designed to help problem solvers improve their *street smarts*, this hands-on guide examines the components of problem solving, and presents a series of graduated exercises — drawn from a variety of industrial applications — to familiarize, reinforce, challenge, and stretch readers creatively in the problem solving process. Leads readers step-by-step through a complete problem-solving process — from encountering an ill-defined problem to identifying the real problem, effectively exploring constraints, planning a robust approach, carrying it through to a viable solution, and then evaluating what has been accomplished.

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Editorial Review

From the Publisher

Designed to help problem solvers improve their street smarts, this hands-on guide examines the components of problem solving, and presents a series of graduated exercises--drawn from a variety of industrial applications--to familiarize, reinforce, challenge, and stretch readers creatively in the problem solving process. Leads readers step-by-step through a complete problem-solving process-- from encountering an ill-defined problem to identifying the real problem, effectively exploring constraints, planning a robust approach, carrying it through to a viable solution, and then evaluating what has been accomplished.

From the Back Cover

This book was designed to help problem-solvers improve their street smarts.

About the Author

H. Scott Fogler is Vennema Professor of Chemical Engineering at the University of Michigan. His research interests include flow and reaction in porous media, fused chemical relations, gelation kinetics, colloidal phenomena, and catalyzed dissolution. Fogler has chaired ASEE's Chemical Engineering Division, served as director of the American Institute of Chemical Engineers, and earned the Chemical Manufacturers Association's National Catalyst Award.

Steven E. LeBlanc is Associate Dean for Academic Affairs and Professor of Chemical Engineering at The University of Toledo. He previously served as the chair of the Chemical and Environmental Engineering Department for ten years. LeBlanc has served as the Chairman of the ASEE Chemical Engineering Education Division and currently is serving as a co-Chair of the ASEE Chemical Engineering Summer School for Faculty to be held in Summer 2007. He also serves on the Publication Board for Chemical Engineering Communications.

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