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## ZPBFMR - KEELY CASSIDY

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There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills. Updated to Include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems.

"Scale - the understanding of ecological phenomena through levels of biological organization across time and space - is one of most important concepts in ecology. It is often challenging for ecologists to find systems that lend themselves to study across scales; however, *Sarracenia*, a pitcher plant indigenous to the eastern United States, is unique because it can be studied at a hierarchy of scales: individuals, communities, and whole ecosystems. Ecologists Aaron Ellison and Nicolas Gotelli have studied *Sarracenia* for decades and, in this book, they synthesize their research and show how this system can inform the broad and challenging question of scaling in ecology.

The authors' goal is to deepen the current understanding of major ecological processes, and how they operate across scales"--

This volume is of interest to science educators, graduate students, and classroom teachers. The book will also be an important addition to any scholarly library focusing on science education, science literacy, and writing. This book is unique in that it synthesizes the research of the three leading researchers in the field of writing to learn science: Carolyn S. Wallace, Brian Hand, and Vaughan Prain. It includes a comprehensive review of salient literature in the field, detailed reports of the authors' own research studies, and current and future issues on writing in science. The book is the first to definitely answer the question, "Does writing improve science learning?". Further, it provides evidence for some of the mechanisms through which learning occurs. It combines both theory and practice in a unique way. Although primarily a tool for research, classroom teachers will also find many practical suggestions for using writing in the science classroom.

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great value to chemistry teachers and students.

The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon, as it forms around particles of a metal catalyst. Carbon nanotubes are a recently discovered allotrope of carbon. Three other allotropes of carbon-buckyballs, graphite, and diamond-are illustrated at the left, as is the molecule methane,  $\text{CH}_4$ , from which nanotubes and buckyballs can be made. The element carbon forms an amazing number of compounds with structures that follow from simple methane, found in natural gas, to the complex macromolecules that serve as the basis of life on our planet. The study of chemistry also follows from the simple to the more complex, and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement.

Designed to help students understand the material better and avoid common mistakes. Also includes solutions and explanations to odd-numbered exercises.

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