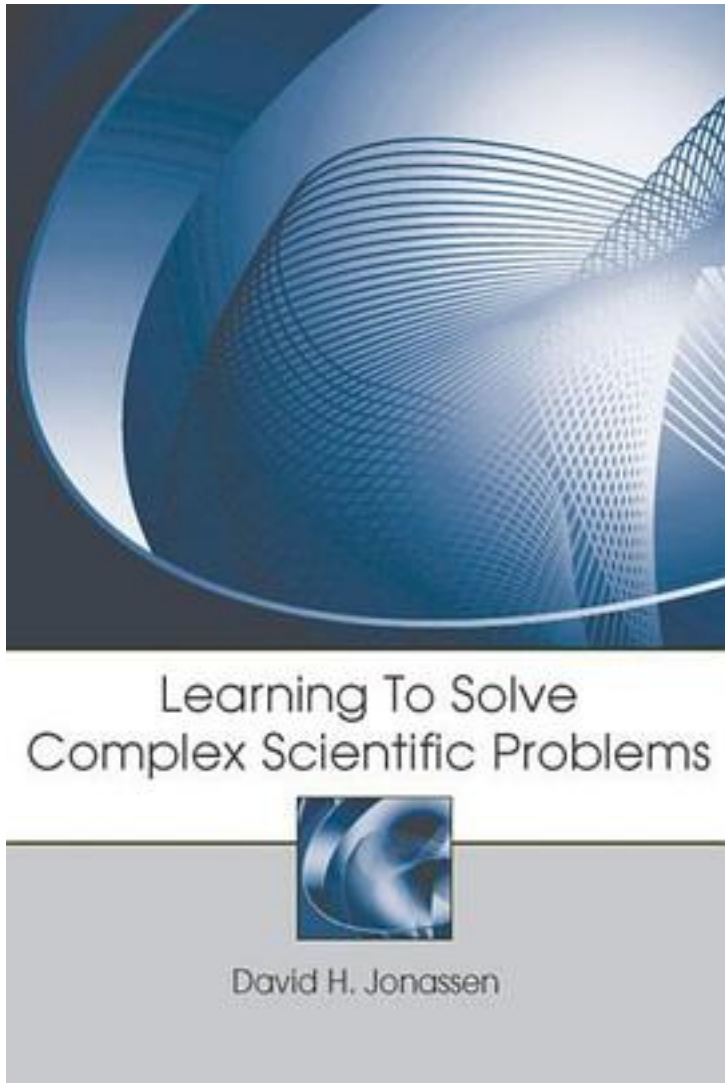


Learning to Solve Complex Scientific Problems



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Problem solving is implicit in the very nature of all science, and virtually all scientists are hired, retained, and rewarded for solving problems. Although the need for skilled problem solvers has never been greater, there is a growing disconnect between the need for problem solvers and the educational capacity to prepare them. "Learning to Solve Complex Scientific Problems" is an immensely useful read offering the insights of cognitive scientists and engineering and science educators who explain methods for helping students solve the complexities of everyday, scientific problems. Important features of this volume include discussions on: how problems are represented by the problem solvers and how perception, attention, memory, and various forms of reasoning impact the management of information and the search for solutions; how academics have applied lessons from cognitive science to better prepare students to solve complex scientific problems; gender issues in science and engineering classrooms; and questions to guide future problem-solving research. The innovative methods explored in this practical volume will be of significant value to science and engineering educators and researchers, as well as to instructional designers.

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