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solving that even the best students can fall back on when confronted with familiar material. The atoms first organization provides an opportunity for students to use the tools of critical thinkers: to ask questions, to apply rules and models and to Chemistry 2e John Wiley & Sons ANDRE JONES As everybody knows, the computer has been used for over ten years in education. Since the first conference at Irvine "The computer in physics instruction"

(1965). various meetings on this subject have been organized in many places, which dealt with very different subjects. Work groups have been set up at international level (by the UNESCO, OECD, ...) and at national level in various countries. Of the prominent extra-European meetings, we will only keep the most important ones. for example those held in the U.S.A. on the "Computer Use in Undergraduate Curriculum" and in Canada, "The Canadian Symposium on Instructional Technology" (1972). As a matter of fact, there have been

quite a lot of conferences on this subject in Europe too. For example, the OECD entrusted us with the organizing of a center called U.C.O. 0.1. which would be aimed at two Objectives. On the one hand, to set up a data bank on the experiments made in the field of the computer use in education; and on the second hand, to stimulate research in this field.

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chapters to the fundamentals as well as the latest ideas and findings in the field. Jacob's aim is to show students how to use basic principles of physics and chemistry to describe a complex system such as the atmosphere. He also seeks to give students an overview of the current state of research and the work that led to this point. Jacob begins with atmospheric structure, design of simple models, atmospheric transport, and the continuity equation, and continues with geochemical cycles, the greenhouse effect, aerosols, stratospheric ozone, the oxidizing power of the atmosphere, smog, and acid rain. Each chapter concludes with a problem set based on recent scientific literature. This is a novel approach to problem-set writing, and one that successfully introduces students to the prevailing issues. This is a major contribution to a growing area of study and will be welcomed enthusiastically by students and teachers alike.

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between the

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process. Users will

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chemistry, gain a

solid

understanding of

what chemical

processes do

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