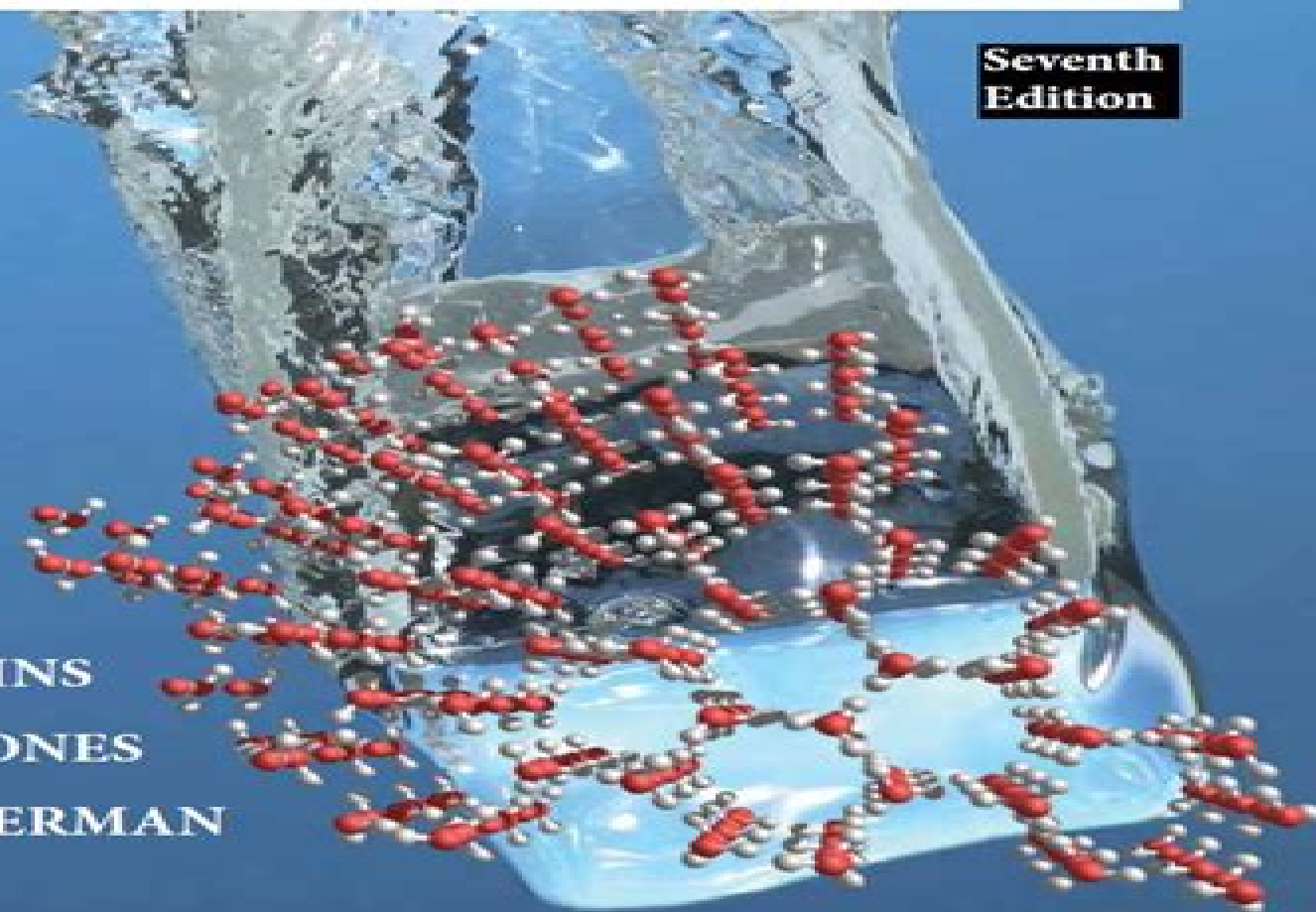


CHEMICAL PRINCIPLES

THE QUEST FOR INSIGHT

Seventh
Edition

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**Peter William Atkins, John
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how the different personalities of the elements arise from the structures of their atoms Symmetry limits guides and drives in which we see how concepts related to beauty can be extended to understand the nature of fundamental particles and the forces that act between them Waves behave like particles and particles behave like waves in which we see how old familiar ideas gave way to the extraordinary insights of quantum theory and transformed our perception of matter The universe is expanding in which we see how a combination of astronomy and a knowledge of elementary particles accounts for the origin of the universe and its long term future Spacetime is curved by matter in which we see the emergence of the theories of special and general relativity and come to understand the nature of space and time If arithmetic is consistent then it is incomplete in which we learn the origin of numbers and arithmetic see how the philosophy of mathematics lets us understand the nature of this most cerebral of subjects and are brought to the limits of its power C P Snow once said not knowing the second law of thermodynamics is like never having read a work by Shakespeare This is an extraordinary exciting book that not only will make you literate in science but give you deep enjoyment on the way

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The Laws of Thermodynamics Peter Atkins,2010-03-25 From the sudden expansion of a cloud of gas or the cooling of a hot metal to the unfolding of a thought in our minds and even the course of life itself everything is governed by the four Laws of Thermodynamics These laws specify the nature of energy and temperature and are soon revealed to reach out and define the arrow of time itself why things change and why death must come In this Very Short Introduction Peter Atkins explains the basis and deeper implications of each law highlighting their relevance in everyday examples Using the minimum of mathematics he introduces concepts such as entropy free energy and to the brink and beyond of the absolute zero temperature These are not merely abstract ideas they govern our lives In this concise and

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Introduction to Chemistry he encourages us to look at chemistry anew through a chemist's eyes in order to understand its central concepts and to see how it contributes not only towards our material comfort but also to human culture Atkins shows how chemistry provides the infrastructure of our world through the chemical industry the fuels of heating power generation and transport as well as the fabrics of our clothing and furnishings By considering the remarkable achievements that chemistry has made and examining its place between both physics and biology Atkins presents a fascinating clear and rigorous exploration of the world of chemistry its structure core concepts and exciting contributions to new cutting edge technologies

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