



Hydrogen: The Essential Element

John S. Rigden

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Seduced by simplicity, physicists find themselves endlessly fascinated by hydrogen, the simplest of atoms. Hydrogen has shocked, it has surprised, it has embarrassed, it has humbled--and again and again it has guided physicists to the edge of new vistas where the promise of basic understanding and momentous insights beckoned. The allure of hydrogen, crucial to life and critical to scientific discovery, is at the center of this book, which tells a story that begins with the big bang and continues to unfold today.

In this biography of hydrogen, John Rigden shows how this singular atom, the most abundant in the universe, has helped unify our understanding of the material world from the smallest scale, the elementary particles, to the largest, the universe itself. It is a tale of startling discoveries and dazzling practical benefits spanning more than one hundred years--from the first attempt to identify the basic building block of atoms in the mid-nineteenth century to the discovery of the Bose-Einstein condensate only a few years ago. With Rigden as an expert and engaging guide, we see how hydrogen captured the imagination of many great scientists--such as Heisenberg, Pauli, Schrödinger, Dirac, and Rabi--and how their theories and experiments with this simple atom led to such complex technical innovations as magnetic resonance imaging, the maser clock, and global positioning systems. Along the way, we witness the transformation of science from an endeavor of inspired individuals to a monumental enterprise often requiring the cooperation of hundreds of scientists around the world.

Still, any biography of hydrogen has to end with a question: What new surprises await us?

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A lot of people always spent their own free time to vacation or maybe go to the outside with them household or their friend. Were you aware? Many a lot of people spent these people free time just watching TV, or even playing video games all day long. If you want to try to find a new activity that's look different you can read a new book. It is really fun for yourself. If you enjoy the book which you read you can spent the whole day to reading a reserve. The book Hydrogen: The Essential Element it doesn't matter what good to read. There are a lot of those who recommended this book. We were holding enjoying reading this book. In case you did not have enough space bringing this book you can buy the particular e-book. You can m0ore very easily to read this book from a smart phone. The price is not too costly but this book offers high quality.

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