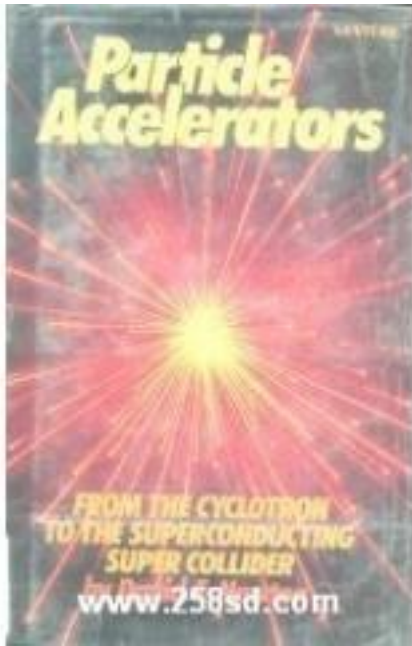


Particle Accelerators



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CHAPTER
ONE
A HALF-CENTURY
OF PARTICLE
ACCELERATORS
The moment was one of high excitement for M. Stanley Livingston. A turn of the dial would soon tell this graduate student in physics if he was to make scientific history. His advisor, Ernest O. Lawrence, had proposed this machine as a way of breaking apart atomic nuclei. But would the idea actually work in practice? Livingston turned the dial and . . . success! The machine worked. The world's first circular particle accelerator, or cyclotron, was in operation. This historic scene took place on the Berkeley campus of the University of California in early 1932. The cyclotron opened a new era in our study of the atom. During the first two decades of the twentieth century, scientists had made enormous strides in learning about the atom. They had found

that atoms consist of
two parts: a denseï¼Œ positively charged core called the
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