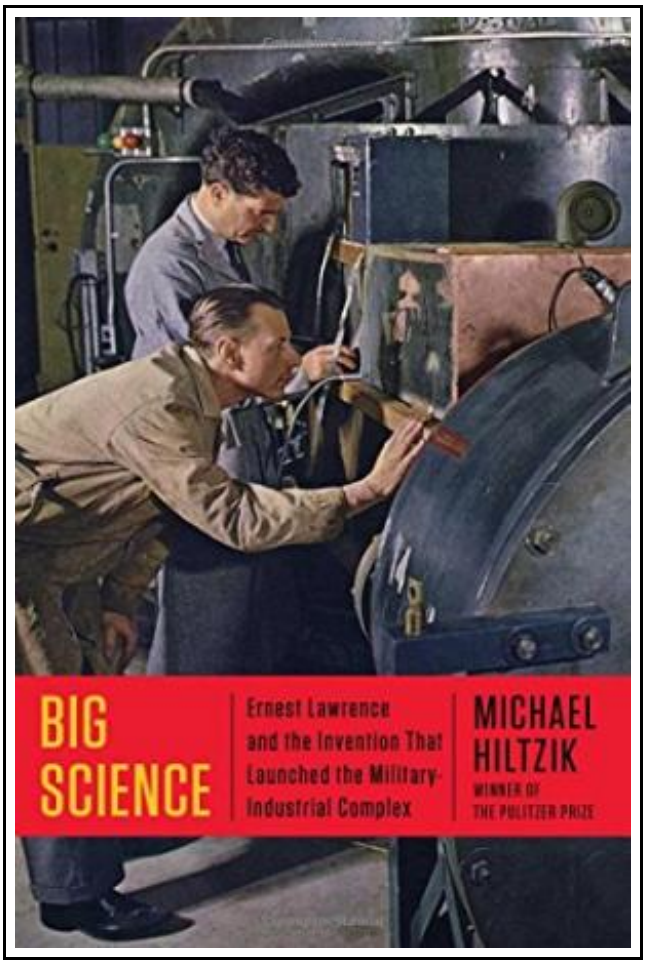
Big Science: Ernest Lawrence and the Invention that Launched the Military-Indust



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(Brendan Doyle)

BIG SCIENCE: ERNEST LAWRENCE AND THE INVENTION THAT LAUNCHED THE MILITARY-INDUST

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Simon & Schuster. 1 Cloth(s), 2015. hard. Book Condition: New. Also the author of The New Deal, Colossus, and Dealers of Lightning, Pulitzer Prizewinning journalist Michael Hiltzik here tells how science went from blackboards and backyard experiments to the "big" science that engineered the atom bomb, sent people to the moon, and became forever dependent on government and industry. Hiltzik traces the birth of Big Science to Berkeley, California, nearly nine decades ago, when a resourceful young scientist named Ernest Lawrence developed a cyclotron that would revolutionize the study of nuclear physics, leading directly to the Manhattan Project in World War II."Hiltzik's tale is important for understanding how science and politics entwine in the United States, and he moves it along efficiently, with striking details and revealing quotations."NYTBR"When the young Berkeley physics professor Ernest Lawrence first envisioned what he called a 'proton merry-go-round,' he recognized its potential to revolutionize science. Hiltzik here tells the fascinating story of how this exceptional scientist won support for his epoch-making research tool and then assembled and managed an unprecedented team of experts who used that tool to penetrate subatomic mysteries."Booklist (starred review)"20th-century science delivered a series of revolutions, none more instantaneous than the microseconds it took to explode the first atomic bomb. By framing this storyand the development of the cyclotron that made it possiblefrom the Lawrence/Livermore perspective rather than the Oppenheimer/Los Alamos perspective that has dominated most accounts, Michael Hiltzik sheds fresh light on the transition from small science to big science that we take for granted today. Especially timely is a fascinating account of Lawrence's attempt to return to small science: how do you encourage a small group of scientists to produce big results, rather than the other way around?"George Dyson 512.

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