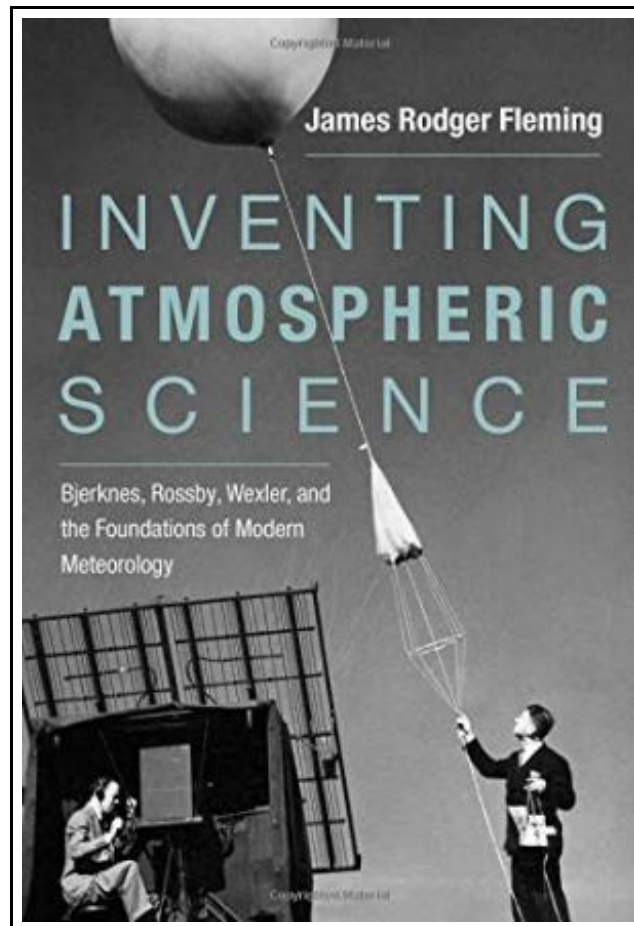


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INVENTING ATMOSPHERIC SCIENCE: BJERKNES, ROSSBY, WEXLER, AND THE FOUNDATIONS OF MODERN METEOROLOGY (HARDBACK)



MIT Press Ltd, United States, 2016. Hardback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. The goal of meteorology is to portray everything atmospheric, everywhere, always, declared John Bellamy and Harry Wexler in 1960, soon after the successful launch of TIROS 1, the first weather satellite. Throughout the twentieth century, meteorological researchers have had global ambitions, incorporating technological advances into their scientific study as they worked to link theory with practice. Wireless telegraphy, radio, aviation, nuclear tracers, rockets, digital computers, and Earth-orbiting satellites opened up entirely new research horizons for meteorologists. In this book, James Fleming charts the emergence of the interdisciplinary field of atmospheric science through the lives and careers of three key figures: Vilhelm Bjerknes (1862--1951), Carl-Gustaf Rossby (1898--1957), and Harry Wexler (1911--1962). In the early twentieth century, Bjerknes worked to put meteorology on solid observational and theoretical foundations. His younger colleague, the innovative and influential Rossby, built the first graduate program in meteorology (at MIT), trained aviation cadets during World War II, and was a pioneer in numerical weather prediction and atmospheric chemistry. Wexler, one of Rossby's best students, became head of research at the U.S. Weather Bureau, where he developed new technologies from radar and rockets to computers and satellites, conducted research on the Antarctic ice sheet, and established carbon dioxide measurements at the Mauna Loa Observatory in Hawaii. He was also the first meteorologist to fly into a hurricane -- an experience he chose never to repeat. Fleming maps both the ambitions of an evolving field and the constraints that checked them -- war, bureaucracy, economic downturns, and, most important, the ultimate realization (prompted by the formulation of chaos theory in the 1960s by Edward Lorenz) that perfectly accurate measurements and forecasts would never be possible.



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