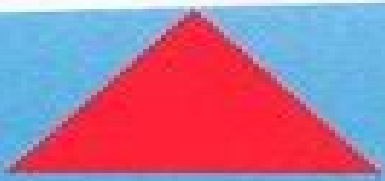


BASIC TECHNICAL PHYSICS



Second Edition

PAUL E. TIPPENS

Basic Technical Physics

Liying Dong



Basic Technical Physics:

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military At the end of the nineteenth century acoustics was a science of musical sounds the musically trained ear was the ultimate reference Just a few decades into the twentieth century acoustics had undergone a transformation from a scientific field based on the understanding of classical music to one guided by electrical engineering with industrial and military applications In this book Roland Wittje traces this transition from the late nineteenth century work of Hermann Helmholtz to the militarized research of World War I and media technology in the 1930s Wittje shows that physics in the early twentieth century was not only about relativity and atomic structure but encompassed a range of experimental applied and industrial research fields The emergence of technical acoustics and electroacoustics illustrates a scientific field at the intersection of science and technology Wittje starts with Helmholtz s and Rayleigh s work and its intersection with telegraphy and early wireless and continues with the industrialization of acoustics during World War I when sound measurement was automated and electrical engineering and radio took over the concept of noise Researchers no longer appealed to the musically trained ear to understand sound but to the thinking and practices of electrical engineering Finally Wittje covers the demilitarization of acoustics during the Weimar Republic and its remilitarization at the beginning of the Third Reich He shows how technical acoustics fit well with the Nazi dismissal of pure science representing everything that German Physics under National Socialism should be experimental applied and relevant to the military **University Curricula in Oceanography ,1967**

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