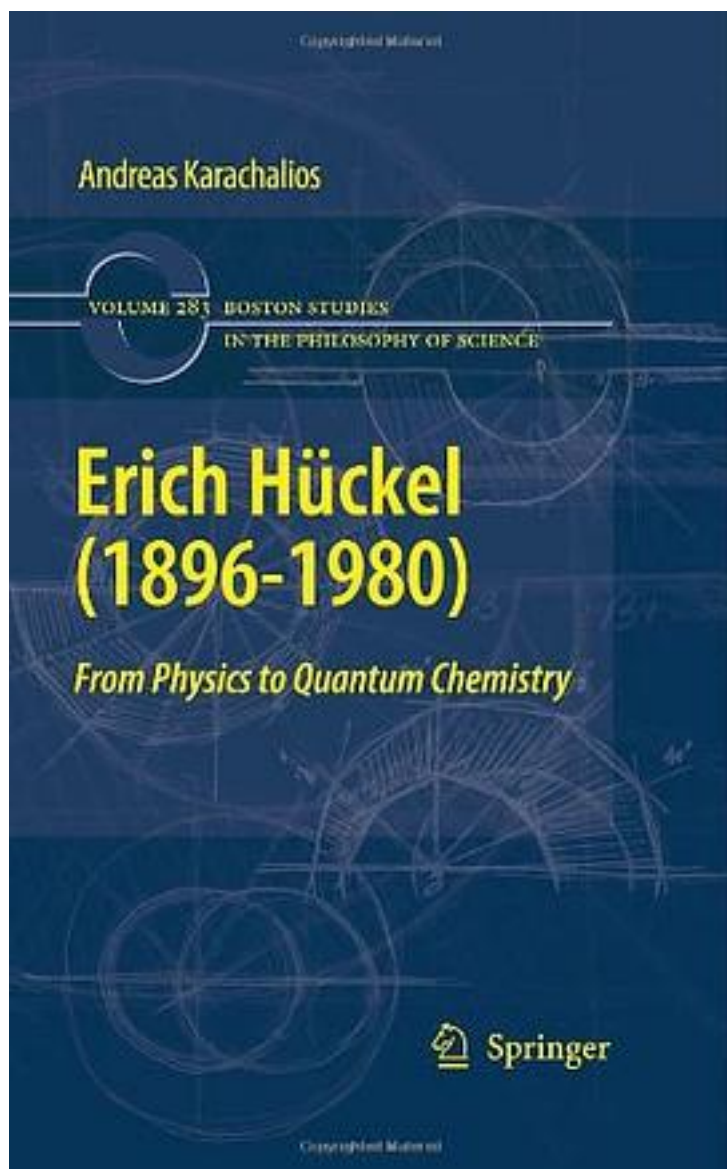


Erich Huckel



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This study, the first comprehensive account of Erich Huckel's career, examines his scientific work as well as his importance for the emergence of quantum chemistry as an independent discipline in Germany during the 1930s. Huckel began his career by studying quantum physics in Gottingen, but his background in chemistry led him to take up pioneering research on the physics of chemical bonding. Drawing on a variety of sources, Andreas Karachalios offers a probing account of fast-breaking developments in quantum theory that paved the way for Huckel's research. In Gottingen and later in Leipzig, Huckel interacted with leading figures not only in quantum physics and physical chemistry but also with others in nearby fields, including organic chemistry and mathematics. During his later career in Marburg, Huckel clashed with Linus Pauling over the properties of the benzene molecule. In order to appreciate this controversy, Karachalios gives a brief account of the mathematical formalism of spin invariants, with both Huckel and Pauling used in their analyses, though with different interpretations. This serves not only to clarify their differences but also to illustrate the importance of the quantum-mechanical theory of resonance for chemistry at this time.

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评论

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