



Collected Papers: Design of Experiments

By Jack Carl Kiefer

Springer-Verlag New York Inc., United States, 2015. Paperback. Book Condition: New. 3rd Revised edition. 235 x 155 mm. Language: English . Brand New Book. From the Preface: The theory of optimal design of experiments as we know it today is built on a solid foundation developed by Jack Kiefer, who formulated and resolved some of the major problems of data collection via experimentation. A principal ingredient in his formulation was statistical efficiency of a design. Kiefer's theoretical contributions to optimal designs can be broadly classified into several categories: He rigorously defined, developed, and interrelated statistical notions of optimality. He developed powerful tools for verifying and searching for optimal designs; this includes the averaging technique for approximate or exact theory, and patchwork for exact theory. Kiefer and Wolfowitz provided a theorem now known as the Equivalence Theorem. This result has become a classical theorem in the field. One important feature of this theorem is that it provides a measure of how far a given design is from the optimal design. He characterized and constructed families of optimal designs. Some of the celebrated ones are balanced block designs, generalized Youden designs, and weighing designs. He also developed combinatorial structures of these designs. Kiefer...



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