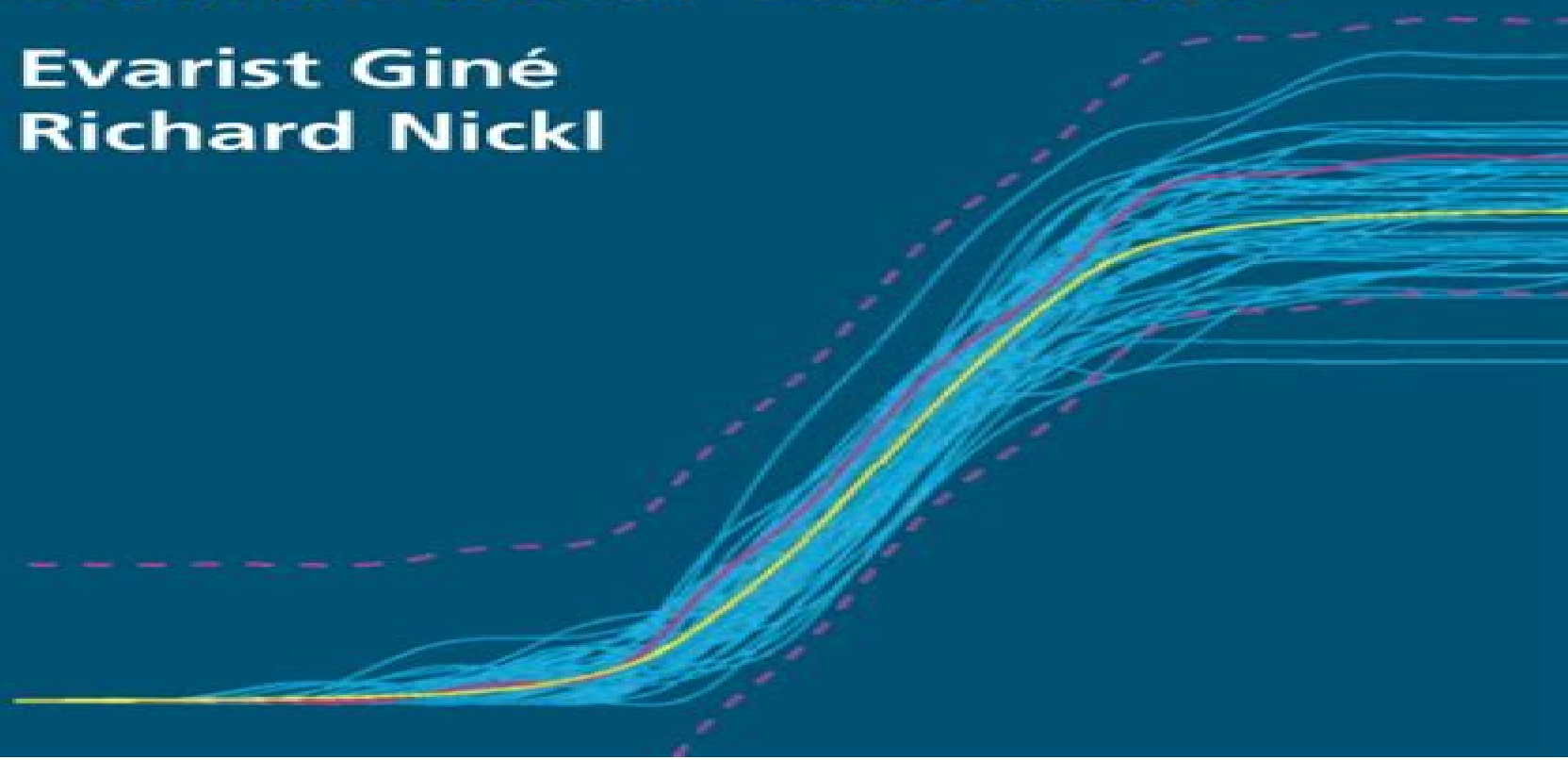


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Mathematical Foundations of Statistical Decision Theory E. J. Balder,1981
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Mathematical Foundations of Quantum Information and Computation and Its Applications to Nano- and Bio-systems Masanori Ohya,I. Volovich,2011-01-15 This monograph provides a mathematical foundation to the theory of quantum information and computation with applications to various open systems including nano and bio systems It includes introductory material on algorithm functional analysis probability theory information theory quantum mechanics and quantum field theory Apart from standard material on quantum information like quantum algorithm and teleportation the authors discuss findings on the theory of entropy in C dynamical systems space time dependence of quantum entangled states entangling operators adaptive dynamics relativistic quantum information and a new paradigm for quantum computation beyond the usual quantum Turing machine Also some important applications of information theory to genetics and life sciences as well as recent experimental and theoretical discoveries in quantum photosynthesis are described

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quantum mechanics have long been recognized as a stochastic theory the introduction of probabilistic concepts and principles to classical mechanics has in general not been attempted In this study the author takes the view that the significant field quantities of a discrete medium are random variables or functions of such variables Hence the probabilistic mechanics of discrete media are based on the mathematical theory of probability and the axiomatics of measure theory

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