# Probability without Equations: Concepts for Clinicians

*Bart K. Holland*
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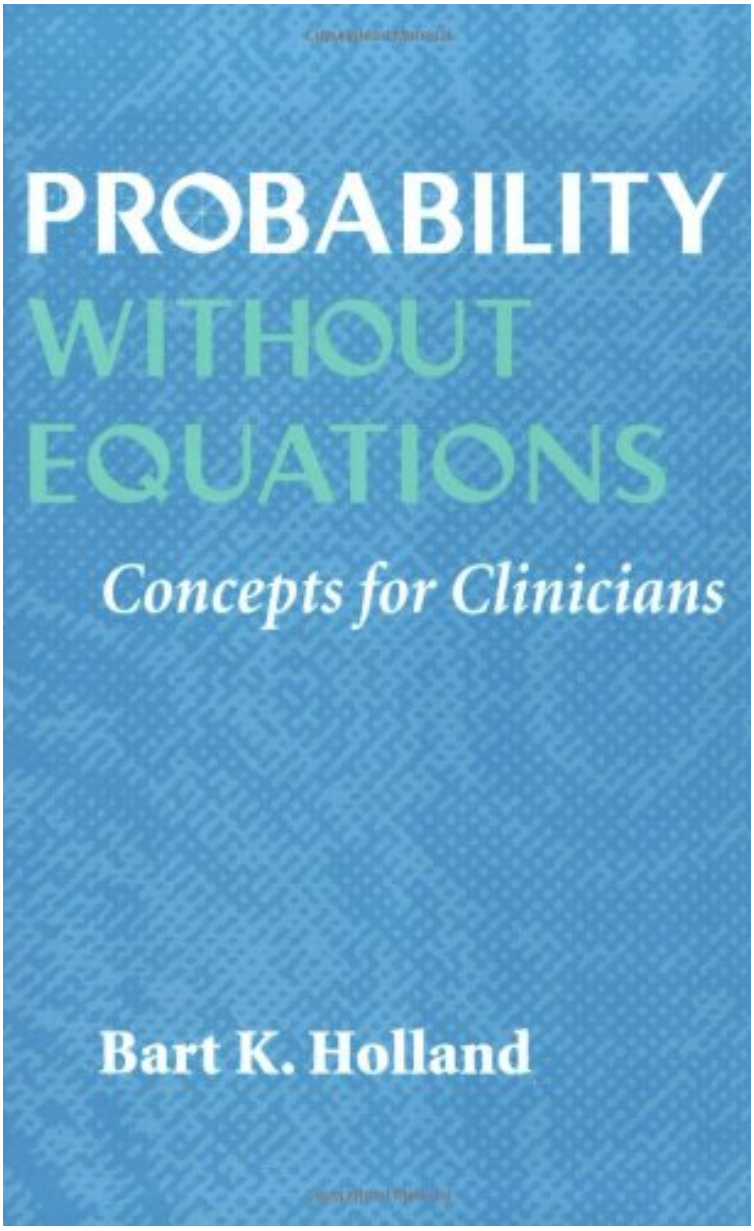




#3483253 in Books Johns Hopkins University Press 1997-11-06Original language:EnglishPDF # 1 8.50 x .32 x 5.50l, .39 #File Name: 0801857600128 pages | File size: 31.Mb

**Bart K. Holland : Probability without Equations: Concepts for Clinicians** before purchasing it in order to gage whether or not it would be worth my time, and all praised Probability without Equations: Concepts for Clinicians:

0 of 0 people found the following review helpful. A GREAT BOOK TO UNDERSTAND THE MEANING OF

"ALPHA LEVELS"By Arvind NathI think this is the only book I have come across which explains the meaning of "alpha levels" so clearly. The author's example of flipping a two-headed coin (without revealing to his students that it is two-headed), observing their reactions as "the number of heads keep going up" and finally explaining that "different students had different alpha levels" could'nt have brought out the meaning of this term in a more better way !

Although few physicians, nurses, dentists, and other health professionals perform laboratory tests themselves, they all need to be able to interpret the results as well as understand findings reported in the medical literature. A general understanding of probability and statistics is essential for those needing to make daily decisions about the significance of research data, drug interaction precautions, or a patient's positive laboratory test for a rare disease.Written with these needs in mind, Probability without Equations offers a thorough explanation of the subject without overwhelming the reader with equations and footnotes. Award-winning teacher Bart Holland presents a nontechnical treatment of intuitive concepts and presents numerous examples from medical research and practice. In plain language, this book explains the topics that clinicians need to understand: Analysis of variance "P-values" and the "t-test" Hazard models Regression and correlations Alpha and beta errors"The Nobel prize-winning physicist Ernest Rutherford was fond of saying that if you need statistics to analyze the results of an experiment, you don't have a very good experiment. In a way he was right. However, a recurrent problem in medicine is that in a certain sense you commonly don't have a good experimentbut not because medical research scientists are generally incompetent! The nature of the data they work with is simply not as predictable as the data in some other fields, so the predictive nature of findings in medical science is generally rather imperfect."from the introduction

"A good primer for the initiated or those requiring a refresher... Highly recommended for those requiring a brief, general overview of the subject." (Doody.com) "A good primer for the initiated or those requiring a refresher... Highly recommended for those requiring a brief, general overview of the subject." -- Doody.comAbout the AuthorBart K. Holland is a consultant in probability and statistics for medical applications and has been involved with the design and analysis of many clinical trials. He has also taught probability, biostatistics, and epidemiology for more than ten years at the New Jersey Medical School, where he is an associate professor in the Department of Preventive Medicine and Community Health. His lectures have won him the medical school's award for outstanding teaching.