A First Course in Order Statistics (Classics in Applied Mathematics)

By Barry C. Arnold, N. Balakrishnan, H. N. Nagaraja

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Written in a simple style that requires no advanced mathematical or statistical background, A First Course in Order Statistics introduces the general theory of order statistics and their applications. The book covers topics such as distribution theory for order statistics from continuous and discrete populations, moment relations, bounds and approximations, order statistics in statistical inference and characterization results, and basic asymptotic theory. There is also a short introduction to record values and related statistics. This classic text will aid readers in understanding much of the current literature on order statistics, a burgeoning field of study that is a requisite for any practicing statistician and an essential part of the training for students in statistics. The authors have updated the text with suggestions for further reading that readers may use for self-study.

Audience This book is intended for advanced undergraduate and graduate students in statistics and mathematics, practicing statisticians, engineers, climatologists, economists, and biologists.

Contents Preface to the Classics Edition; Further Reading; Preface; Acknowledgments; Notations and Abbreviations; Errata; Chapter 1: Introduction and Preview; Chapter 2: Basic Distribution Theory; Chapter 3: Discrete Order Statistics; Chapter 4: Order Statistics from Some Specific Distributions; Chapter 5: Moment Relations, Bounds, and Approximations; Chapter 6: Characterizations Using Order Statistics; Chapter 7: Order Statistics in Statistical Inference; Chapter 8: Asymptotic Theory; Chapter 9: Record Values; Bibliography; Author Index; Subject Index.

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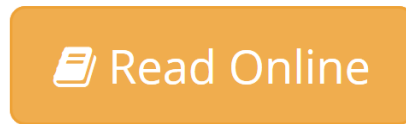📄 **Read Online** A First Course in Order Statistics (Classics in ...pdf

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Editorial Review

From the Publisher
Reasonably rigorous but not exhaustive, using simple and comprehensible terms, it presents an introduction to the general theory of order statistics. Includes both fundamental material and recent developments. Exercises at each chapter's end are designed to let students have hands-on experience in order to facilitate a better understanding of the concepts discussed. Features an extensive reference list.

About the Author
Barry C. Arnold is a Distinguished Professor in the Department of Statistics at the University of California, Riverside. N. Balakrishnan is a Professor in the Department of Mathematics and Statistics at McMaster University, Hamilton, Ontario, Canada. H. N. Nagaraja is a Professor in the Department of Statistics at The Ohio State University, Columbus.

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