

Mathematical Statistics for Economics and Business

By Ron C. Mittelhammer

Mathematical Statistics for Economics and Business, Second Edition, provides a comprehensive introduction to the principles of mathematical statistics which underpin statistical analyses in the fields of economics, business, and econometrics. The selection of topics in this textbook is designed to provide students with a conceptual foundation that will facilitate a substantial understanding of statistical applications in these subjects. This new edition has been updated throughout and now also includes a downloadable Student Answer Manual containing detailed solutions to half of the over 300 end-of-chapter problems.

After introducing the concepts of probability, random variables, and probability density functions, the author develops the key concepts of mathematical statistics, most notably: expectation, sampling, asymptotics, and the main families of distributions. The latter half of the book is then devoted to the theories of estimation and hypothesis testing with associated examples and problems that indicate their wide applicability in economics and business. Features of the new edition include: a reorganization of topic flow and presentation to facilitate reading and understanding; inclusion of additional topics of relevance to statistics and econometric applications; a more streamlined and simple-to-understand notation for multiple integration and multiple summation over general sets or vector arguments; updated examples; new end-of-chapter problems; a solution manual for students; a comprehensive answer manual for instructors; and a theorem and definition map.

This book has evolved from numerous graduate courses in mathematical statistics and econometrics taught by the author, and will be ideal for students beginning graduate study as well as for advanced undergraduates.

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From the Back Cover

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About the Author

Ron Mittelhammer is a Regents Professor of Economic Sciences and Statistics at Washington State University. He is also a Fellow of the Journal of Econometrics, a Fellow of the Agricultural and Applied Economics Association (AAEA), and a Distinguished Scholar of the Western Ag. Economics Association. He has over 250 publications and presentations to his credit, including 100 refereed journal publications. He is a celebrated teacher at the graduate level, receiving national and university-wide awards for instruction, including the AAEA Award for Distinguished Graduate Teaching, the Washington State University Sahlin Faculty Excellence Award in Teaching, and the WSU-CAHNRS Teaching Excellence Award. He served as

President-Elect, President, and Past-President of the AAEA from 2008-2011.

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