

STATISTICS

Applied Time Series: *Analysis and Forecasting*

T. M. J. A. Cooray

TEXTBOOK

Audience: Undergraduate – Postgraduate Students, Researchers & Professionals within business, statistics, economics, engineering, and operations research program

2008 294 pp. 100Figs. 63TbIs. 160 x 240 620g Hb ISBN: 978-1-84265-471-2 £ 24.95 / US\$ 49.95

Bayesian Parametric Inference

Ashok K. Bansal

Audience: Senior Undergraduate & Graduate Students in Statistics

2007 468 pp. 185 x 240 950g Hb ISBN: 978-1-84265-388-3 £ 34.95 / US\$ 69.95

A First Course in Asymptotic Theory of Statistics

T. K. Chandra

TEXTBOOK

Audience: Graduate & Postgraduate Students & Teachers

1999 264 pp. 155 x 230 350g Pb ISBN: 978-81-7319-260-9 £ 32.00 / US\$ 64.50

A First Course in Probability, *Third Edition*

T. K. Chandra, D. Chatterjee

TEXTBOOK

Audience: Graduate, Postgraduate Students & Teachers

2005 510 pp. 21Figs. 160 x 240 1000g Hb ISBN: 978-1-84265-208-4 £ 38.00 / US\$ 74.50

A First Course on Parametric Inference, *Second Edition*

B. K. Kale

TEXTBOOK

Audience: Senior Undergraduate, Graduate Students & Teachers

2005 308 pp. 160 x 240 700g Hb ISBN: 978-1-84265-219-0 £ 35.00 / US\$ 68.00

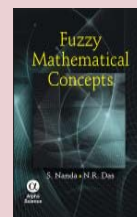
Fuzzy Mathematical Concepts

S. Nanda, N. R. Das

NEW

TEXTBOOK

Fuzzy Mathematical Concepts deals with the theory and applications of Fuzzy sets, Fuzzy relations, Fuzzy logic and Rough sets including the theory and applications to Algebra, Topology, Analysis, probability, and Measure Theory. While the first two chapters deal with basic theory and the prerequisite for the rest of the book, readers interested in Algebra and Logic may go through chapters 3 and 4, those interested in Topology may proceed to chapters 5 to 8 and for Analysis one may read chapters 8 and 9. Readers interested in Rough Set Theory may directly proceed to chapter 10 after completing chapters 1 and 2. A part of the book can be covered in one semester depending on the requirement and the whole book in two semesters.



Audience: Undergraduate and Graduate Students of Mathematics, Statistics, Engineering, Computer Science, Science and Management

2010 208 pp. 160 x 240 520g Hb ISBN: 978-1-84265-580-1 £ 24.95 / US\$ 44.95

Prices and Pub Dates subject to change

ISBN Prefix: Alpha Science — 978-1-84265; Narosa — 978-81-7319, 978-81-85198, 978-81-8487

USD Price valid for North America Only / GBP Price valid for Rest of the World

www.alphasci.com

1

STATISTICS

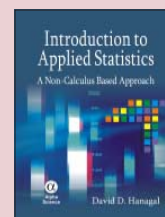
Introduction to Applied Statistics: A Non-Calculus Based Approach

David D. Hanagal

NEW

TEXTBOOK

CONTENTS: Preface / Acknowledgement / Frequency Distribution and Graphical Representation of Data / Measures of Central Tendency and Dispersion / Probability Theory / Probability Distribution / Sampling Distributions / Statistical Inference: Estimation / Statistical Inference: Testing of Hypothesis / Analysis of Variance (ANOVA) / Simple Linear Regression and Correlation / Nonparametric Tests / References / Statistical Tables / Answers to Exercises / Snap Shot Formulas / Index / About the Author.



Audience: Undergraduate and Graduate Students, Professionals, Researchers, Scientists and Non Statisticians

2009 262 pp. 46Figs. 16TbIs. 185 x 240 650g Hb ISBN: 978-1-84265-531-3 £ 29.95 / US\$ 59.95

An Introduction to Estimating Functions

P. Mukhopadhyay

TEXTBOOK

Audience: Graduate & Postgraduate Students, Teachers and Researchers

2004 244 pp. 160 x 240 700g Hb ISBN: 978-1-84265-163-6 £ 48.00 / US\$ 95.00

An Introduction to Stochastic Process

A. K. Basu

TEXTBOOK

Audience: Undergraduate & Postgraduate Students & Teachers

2003 432 pp. 21Figs. 160 x 240 850g Hb ISBN: 978-1-84265-105-6 £ 49.50 / US\$ 98.00

An Introductory Course of Statistical Mechanics

Palash B. Pal

TEXTBOOK

Audience: Undergraduate & Postgraduate Students in Physics

2008 396 pp. 56Figs. 160 x 240 1000g Hb ISBN: 978-1-84265-436-1 £ 39.95 / US\$ 79.95

Labelings of Discrete Structures and Applications

Editors: B. D. Acharya, S. Arumugam, Alexander Rosa

Audience: Graduate Students, Teachers & Researchers

2008 192 pp. 160 x 240 500g Hb ISBN: 978-81-7319-860-1 £ 44.95 / US\$ 89.95

Mathematical Statistics: A Text Book

Suddhendu Biswas, G. L. Srivastava

FORTHCOMING

TEXTBOOK

A lucid presentation of modern probability theory based on Measure theoretic approach with examples. Presentation of the genesis of all standard probability distributions (Discrete, Absolutely Continuous and Singular Distributions) inclusive of circular, Singular distributions. New Interpretations of some distributions like Pareto, Logistic etc. Characterization of Distributions and inclusion of Censoring of Distributions is a unique feature of the book. Coverage of Regression Analysis in a text book of statistical methodology is also a new feature of the book. A large number of solved and unsolved examples is also a special feature of the book.



Audience: Undergraduate - Postgraduate Students & Researchers

2010 586 pp. 185 x 240 Hb ISBN: 978-1-84265-489-7 £ 54.95 / US\$ 98.95

STATISTICS

Microarray Data: *Statistical Analysis Using R*

Shailaja R. Deshmukh, Sudha G. Purohit

TEXTBOOK

Audience: Postgraduate Students in Statistics, Life Sciences, Bio-medicine, Biotechnology & Computer Science

2007 340 pp. 185 x 240 800g Hb ISBN: 978-1-84265-423-1 £ 37.50 / US\$ 75.00

Operations Research

K. Chandrasekhara Rao, S. L. Mishra

TEXTBOOK

Audience: Undergraduate & Graduate Students of Engineering / Management & Teachers

2005 348 pp. 160 x 240 700g Hb ISBN: 978-1-84265-120-9 £ 50.00 / US\$ 98.00

Operations Research Methods

Sujit K Bose

TEXTBOOK

Audience: Undergraduate & Postgraduate Students in Computer Science, Mechanical (Production), Construction and Chemical Engineering, Mathematics, Economics and Business Administration

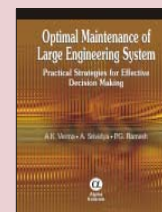
2005 272 pp. 54Figs. 160 x 240 700g Hb ISBN: 978-1-84265-221-3 £ 29.95 / US\$ 59.95

Optimal Maintenance of Large Engineering System

Practical Strategies for Effective Decision Making

A. K. Verma, A. Srividya, P. G. Ramesh

FORTHCOMING



Maintenance has an essential role in ensuring that engineering systems perform at expected levels of reliability, availability and safety in a cost effective manner and in keeping with the corporate demands. A review of extensive research in the field of maintenance indicates that most models either have over-simplified assumptions or are analytically and computationally too intensive for practical application. *Optimal Maintenance of Large Engineering System* endeavors to address this anomaly for the maintenance decision maker and researcher. The book brings under one roof, a critical discussion on the classical and contemporary analysis of maintenance models, presentation of maintenance decision as a multi-objective optimization problem using genetic algorithms and use for fuzzy logic for handling uncertainty and expert opinion or domain knowledge with particular reference to maintenance of large engineering systems. There are also necessary inputs to equip the readers with the necessary skills, such as genetic algorithms, fuzzy sets, bayesian statistics, etc., as well as a detailed exposure to tools and techniques for maintenance planning and management, CMMS and expert systems.

Audience: Undergraduate – Postgraduate Students, Professionals & Researchers

2010 350 pp. 100Figs. 185 x 240 Hb ISBN: 978-1-84265-524-5 £ 49.95 / US\$ 99.00

Point Processes and Product Densities

Editors: S. K. Srinivasan, A. Vijayakumar

Audience: Researchers & Professionals

2003 168 pp. 185 x 240 520g Hb ISBN: 978-81-7319-558-7 £ 49.00 / US\$ 94.95

Quality, Reliability and Information Technology: *Trends and Future Directions*

Editors: P. K. Kapur, A. K. Verma

Audience: Students & Researchers

2005 483 pp. 167Figs. 100TbIs. 185 x 240 1150g Hb ISBN: 978-81-7319-572-3 £ 78.00 / US\$ 155.00

Prices and Pub Dates subject to change

ISBN Prefix: Alpha Science — 978-1-84265; Narosa — 978-81-7319, 978-81-85198, 978-81-8487

USD Price valid for North America Only / GBP Price valid for Rest of the World

www.alphasci.com

STATISTICS

Sample Survey Theory

Des Raj, P. Chandhok

TEXTBOOK

Audience: University level Students & Statisticians

1998 361 pp. 155 x 230 630g Hb ISBN: 978-81-7319-137-4 £ 45.00 / US\$ 98.00

Sampling Theory and Methods, Second Edition

S. Sampath

TEXTBOOK

Audience: Undergraduate & Postgraduate Students

2005 206 pp. 160 x 240 600g Hb ISBN: 978-1-84265-214-5 £ 34.95 / US\$ 69.95

Statistical Computing: Existing Methods and Recent Developments

D. Kundu, A. Basu

TEXTBOOK

Audience: Senior Undergraduate and Graduate Students and Teachers

2004 428 pp. 160 x 240 900g Hb ISBN: 978-1-84265-202-2 £ 35.00 / US\$ 69.95

Statistical Inference and Design of Experiments

Editors: *U. J. Dixit, M. R. Satam*

Audience: Graduate & Research Students, Professors & Professionals

1999 206 pp. 185 x 240 575g Hb ISBN: 978-81-7319-281-4 £ 68.00 / US\$ 130.00

Statistical Methods and Practice: Recent Advances

Editors: *N. Balakrishnan, N. Kannan, M. R. Srinivasan*

Audience: Postgraduate Students, Teachers & Researchers

2003 365 pp. 160 x 240 800g Hb ISBN: 978-81-7319-483-2 £ 65.00 / US\$ 130.00

Statistical Techniques in Life-Testing, Reliability, Sampling Theory and Quality Control

Editor: *B. N. Pandey*

Audience: Graduate Students, Teachers & Researchers

2007 224 pp. 185 x 240 700g Hb ISBN: 978-81-7319-742-0 £ 59.95 / US\$ 120.00

Statistics Using R

Sudha G. Purohit, Sharad D. Gore, Shailaja R. Deshmukh

TEXTBOOK

Audience: Undergraduate – Postgraduate Students, Professionals & Researchers

2008 300 pp. 130Figs. 83TbIs. 185 x 240 700g Hb ISBN: 978-1-84265-478-1 £ 37.50 / US\$ 75.00

Survey Sampling

P. Mukhopadhyay

Audience: Postgraduate Students in Statistics

2007 268 pp. 185 x 240 720g Hb ISBN: 978-1-84265-374-6 £ 39.95 / US\$ 79.95