Optics, and Data Testing: A Problem Solving Approach : Springer Series in Information Sciences: 010

Frieden, B. Roy

# **Probability Statistical Optics And Data Testing**

Bahaa E. A. Saleh, Malvin Carl Teich

## **Probability Statistical Optics And Data Testing:**

**Probability, Statistical Optics, and Data Testing** Roy Frieden,2001-07-17 Scientists in optics are increasingly confronted with problems that are of a random nature and that require a working knowledge of probability and statistics for their solution This textbook develops these subjects within the context of optics using a problem solving approach All methods are explicitly derived and can be traced back to three simple axioms given at the outset Students with some previous exposure to Fourier optics or linear theory will find the material particularly absorbing and easy to understand This third edition contains many new applications to optical and physical phenomena This includes a method of estimating probability laws exactly by regarding them as laws of physics to be determined using a new variational principle

Probability, Statistical Optics, and Data Testing B.Roy Frieden, 2012-12-06 This new edition incorporates corrections of all known typographical errors in the first edition as well as some more substantive changes Chief among the latter is the addition of Chap 17 on methods of estimation As with the rest of the text most applications and examples cited in the new chapter are from the optical perspective. The intention behind this new chapter is to empower the optical researcher with a yet broader range of research tools Certainly a basic knowledge of estimation methods should be among these In particular the sections on likelihood theory and Fisher information prepare readers for the problems of optical parameter estimation and probability law estimation Physicists and optical scientists might find this material particularly useful since the subject of Fisher information is generally not covered in standard physical science curricula Since the words statistical optics are prominent in the title of this book their meaning needs to be clarified. There is a general tendency to overly emphasize the statistics of photons as the sine qua non of statistical optics In view is taken which equally emphasizes the random medium this text a wider that surrounds the photon be it a photographic emulsion the turbulent atmosphere a vibrating lens holder etc Also included are random interpretations of ostensibly deterministic phenomena such as the Hurter Driffield H and D curve of photography Such a random interpretation sometimes breaks new ground as in Chap **Probability, Statistical Optics, and Data Testing** Roy Frieden, 2012-12-06 Scientists in optics are increasingly confronted with problems that are of a random nature and that require a working knowledge of probability and statistics for their solution This textbook develops these subjects within the context of optics using a problem solving approach All methods are explicitly derived and can be traced back to three simple axioms given at the outset Students with some previous exposure to Fourier optics or linear theory will find the material particularly absorbing and easy to understand This third edition contains many new applications to optical and physical phenomena This includes a method of estimating probability laws exactly by regarding them as laws of physics to be determined using a new variational principle **Probability, Statistical Optics, and Data Testing B.R.** Frieden, 1982-12-01 A basic skill in probability is practically demanded nowadays in many bran ches of optics especially in image science On the other hand there is no text presently available that develops probability and its companion fields

stochastic processes and statistics from the optical perspective Short of a book a chapter was recently written for this purpose see B R Frieden ed The Computer in Optical Research Topics in Applied Physics Vol 41 Springer Berlin Heidelberg New York 1980 Chap 3 Most standard texts either use illustrative examples and problems from electrical engineering or from the life sciences. The present book is meant to remedy this situation by teaching probability with the specific needs of the optical researcher in mind Virtually all the illustrative examples and applications of the theory are from image science and other fields of optics One might say that photons have replaced electrons in nearly all considerations here We hope in this manner to make the learning of probability a pleasant and absorbing experience for optical workers Some of the remaining applications are from information theory a concept which complements image science in particular As will be seen there are numerous tie ins between the two concepts Students will be adequately prepared for the material in this book if they have had a course in calculus and know the basics of matrix manipulation Probability, Statistical Optics, and Data Testing B R Frieden.1982-12-01 Probability, Statistical Optics, and Data Testing B Roy Frieden, 1991-03-21 Probability. Probability Statistical Optics, And Data Testing -a **Statistical Optics, and Data Testing** Roy Frieden, 2011-04-27 **Problem Solving Approach-** R.B. Frieden, Optik und Photonik Bahaa E. A. Saleh, Malvin Carl Teich, 2020-04-30 Vollst ndig berarbeitete Neuauflage des ma geblichen Grundlagen Lehrbuchs zur Optik und Photonik umfassend berarbeitet und mit einem neuen Kapitel zur Metamaterialoptik erweitert Die Optik ist eines der Itesten und faszinierendsten Teilgebiete der Physik und fest in den Curricula des Physikstudiums verankert Sie besch ftigt sich mit der Ausbreitung von Licht und Ph nomenen wie Interferenz Brechung Beugung und optischen Abbildungen Die Photonik umfasst optische Ph nomene die prim r auf der Wechselwirkung von quantisiertem Licht und Materie beruhen und befasst sich mit dem Verst ndnis und der Entwicklung optischer Bauteile und Systeme wie etwa Lasern LEDs und photonischen Kristallen In bew hrter Weise gibt die vollst ndig berarbeitete und erweiterte Neuauflage des Saleh Teich eine Einf hrung in die Grundlagen der Optik und Photonik fr Studierende der Physik und verwandter Wissenschaften Ausf hrliche Erkl rungen rund 1000 Abbildungen und die zur quantitativen Durchdringung notwendige Mathematik erm glichen ein tiefes Verst ndnis aller Teilgebiete der klassischen und modernen Optik Umfassend und verst ndlich s mtliche Grundlagen der Optik und Photonik in einem Werk vereint Geschrieben von hervorragenden Didaktikern mit langer Lehrerfahrung optische Ph nomene und deren Physik stehen im Vordergrund der notwendige mathematische Apparat wird behutsam entwickelt berarbeitet und erweitert alle Kapitel wurden mit Blick auf noch bessere Verst ndlichkeit kritisch gepr ft und aktualisiert Komplett neu umfangreiches Kapitel zu Metamaterialoptik Optik und Photonik richtet sich an Bachelor und Master Studierende der Physik Materialwissenschaften und Ingenieurwissenschaften Real-Time Optical Information Processing Bahram Javidi, Joseph L. Horner, 2012-12-02 Real Time Optical Information Processing covers the most recent developments in optical information processing pattern recognition neural computing and materials for devices in optical computing Intended for researchers and graduate students

in signal and information processing with some elementary background in optics the book provides both theoretical and practical information on the latest in information processing in all its aspects Leading researchers in the field describe the significant signal processing algorithms architectures in optics as well as basic hardware concepts such as the fundamentals of spatial light modulators Each chapter begins with a review of basic concepts and follows with a discussion of recent advances in the field A complete bibliography on the fundamentals of each topic is also included to aid the reader Contributors are among the leading researchers in the areaChapters begin with reviews of basic conceptsComplete bibliographical information is included Grundlagen der Photonik Bahaa E. A. Saleh, Malvin Carl Teich, 2008-05-05 Schon die erste Auflage des englischen Lehrbuchs Fundamentals of Photonics zeichnete sich durch seine ausgewogene Mischung von Theorie und Praxis aus und deckte in detaillierter Darstellung die grundlegenden Theorien des Lichts ab Es umfasste sowohl die Themen Strahlenoptik Wellenoptik elektromagnetische Optik Photonenoptik sowie die Wechselwirkung von Licht und Materie als auch die Theorie der optischen Eigenschaften von Halbleitern Die Photonik Technologie hat eine rasante Entwicklung genommen seit der Publikation der ersten Ausgabe von Fundamentals of Photonics vor 15 Jahren Die nun vorliegende Zweite Auflage des Marksteins auf dem Gebiet der Photonik tr gt mit zwei neuen und zus tzlichen Kapiteln den neuesten technologischen Fortschritten Rechnung Photonische Kristalle sowie Ultrakurzpuls Optik Zudem wurden alle Kapitel gr ndlich berarbeitet und viele Abschnitte hinzugef gt so z B ber Laguerre Gauss Strahlen die Sellmeier Gleichung Photonenkristall Wellenleiter photonische Kristallfasern Mikrosph ren Resonatoren Optische Koh renz Tomographie Bahndrehimpuls des Photons Bohrsche Theorie Raman Verst rker rauscharme Avalanche Photodioden Abstimmkurven und Dispersions Management Journal of the Optical Society of America ,1983 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2002 **Deutsche** Nationalbibliographie und Bibliographie des im Ausland erschienenen deutschsprachigen Schrifttums ,1983 Soviet Physics ,1992 Technometrics ,2004 Stochastic and Neural Methods in Signal Processing, Image **Processing, and Computer Vision** Society of Photo-optical Instrumentation Engineers, 1991 Current Developments in Optical Engineering II, 1987 Application of Optical Instrumentation in Medicine XIV and Picture Archiving and Communication Systems (PACS IV) for Medical Applications ,1986 Electro-optical Technology for Remote Chemical Detection and Identification, 1996

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