

# Probe

Francis J. Capone

*The Book of Probes* Marshall McLuhan,David Carson,Eric McLuhan,William Kuhns,2003 'The Book of Probes' is a collection of Marshall McLuhan's finest words culled from his books, his more than 200 speeches, his classes at the University of Toronto ... and from nearly 700 shorter writings he published between 1945 and 1980--Jacket.

Night Probe! Clive Cussler,2014-11-11 In the midst of an international crisis, Heidi Milligan, a beautiful, brilliant American naval commander, accidentally discovers an obscure reference to the long-buried North American Treaty, a precedent-shattering secret pact between the United States and Great Britain. The President believes that the treaty offers the single shot at salvation for an energy-starved, economically devastated nation, but the only two copies plummeted into the watery depths of the Atlantic in twin disasters long ago. The original document must be found—and the one American who can do the job is Dirk Pitt. But in London, a daring counterplot is being orchestrated to see that the treaty is never implemented. Brian Shaw, a master spy who has often worked hand in hand with American agents, now confronts his most challenging command. Pitt's mission: Raise the North American Treaty. Shaw's mission: Stop Pitt. Praise for Night Probe! and the Dirk Pitt® novels “A rich tale . . . an absorbing, carefully told mystery with plenty of surprises.”—Los Angeles Times “Dirk Pitt is a combination James Bond and Jacques Cousteau.”—New York Daily News

*Probe Power* Ailynn Collins,2019-08 Probes can explore the depths of space in ways that would kill human beings. The information they provide can spur countless innovations here on Earth. Learn how probes work and the exciting possibilities that their discoveries may inspire.

**Atom Probe Tomography** Williams Lefebvre,Francois Vurpillot,Xavier Sauvage,2016-05-30 Atom Probe Tomography is aimed at beginners and researchers interested in expanding their expertise in this area. It provides the theoretical background and practical information necessary to investigate how materials work using atom probe microscopy techniques, and includes detailed explanations of the fundamentals, the instrumentation, contemporary specimen preparation techniques, and experimental details, as well as an overview of the results that can be obtained. The book emphasizes processes for assessing data quality and the proper implementation of advanced data mining algorithms. For those more experienced in the technique, this book will serve as a single comprehensive source of indispensable reference information, tables, and techniques. Both beginner and expert will value the way the book is set out in the context of materials science and engineering. In addition, its references to key research outcomes based upon the training program held at the University of Rouen-one of the leading scientific research centers exploring the various aspects of the instrument-will further enhance understanding and the learning process. Provides an introduction to the capabilities and limitations of atom probe tomography when analyzing materials Written for both experienced researchers and new users Includes exercises, along with corrections, for users to practice the techniques discussed Contains coverage of more advanced and less widespread techniques, such as correlative APT and STEM microscopy

**Probe** Margaret Wander Bonanno,1992 Winds of change are sweeping the galaxy, the Romulan Praetor is dead, and with his passing the Empire he ruled is in chaos. Now, on a small planet in the heart of the Neutral Zone, representatives of the United Federation of Planets and the Empire have gathered to discuss an era of peace.

Fluorescent and Luminescent Probes for Biological Activity W. T. Mason,1999-04-16 The use of fluorescent and luminescent probes to measure biological function has increased dramatically since publication of the First Edition due to their improved speed, safety, and power of analytical approach. This eagerly awaited Second Edition, also edited by Bill Mason, contains 19 new chapters and over two thirds new material, and is a must for all life scientists using optical probes. The contents include discussion of new optical methodologies for detection of proteins, DNA and other molecules, as well as probes for ions, receptors, cellular components, and gene expression. Emerging and advanced technologies for probe detection such as confocal laser scanning microscopy are also covered. This book will be essential for those embarking on work in the field or using new methods to enhance their research. TOPICS COVERED: \* Single and multiphoton confocal microscopy \* Applications of green fluorescent protein and chemiluminescent reporters to gene expression studies \* Applications of new optical probes for imaging proteins in gels \* Probes and detection technologies for imaging membrane potential in live cells \* Use of optical probes to detect microorganisms \* Raman and confocal raman microspectroscopy \* Fluorescence lifetime imaging microscopy \* Digital CCD cameras and their application in biological microscopy

Scanning Probe Microscopy Sergei V. Kalinin,Alexei Gruverman,2007-04-03 This volume will be devoted to the technical aspects of electrical and electromechanical SPM probes and SPM imaging on the limits of resolution, thus providing technical introduction into the field. This volume will also address the fundamental physical phenomena underpinning the imaging mechanism of SPMs.

NMR Probeheads for Biophysical and Biomedical Experiments Joël Mispelter,Mihaela Lupu,André Briguët,2015-05-27 NMR Probeheads for Biophysical and Biomedical Experiments 2nd Edition is essential reading for anyone in the field of NMR or MRI, from students to medical or biological scientists performing experiments under certain physical and/or geometrical conditions, unattainable by conventional or available probes. The material guides the reader through the most basic and comprehensive stages in accomplishing a correct probe design, from a very basic oscillating circuit to much more elaborate designs. This new edition has been revised and updated to include a chapter dedicated to RF components, which are commonly used for probes realization and their frequency-dependent characteristics. Another completely revised chapter concerns the multiple coil systems and discusses arrays coils, different decoupling methods, and some principles for interfacing coils with low-noise preamplifiers. The principles of linear circuit analysis are presented in a dedicated chapter. Last but not least, accompanying files containing updated software for probe design have been made available from the publisher's website. Request Inspection Copy

Atom-Probe Tomography Michael K. Miller,Richard G. Forbes,2014-07-31 Nanocharacterization by Atom Probe Tomography is a practical guide for researchers interested atomic level characterization of materials with atom probe tomography. Readers will find descriptions of the atom probe instrument and atom probe tomography technique, field ionization, field evaporation and field ion microscopy. The fundamental underlying physics principles are examined, in addition to data reconstruction and visualization, statistical data analysis methods and specimen preparation by electropolishing and FIB-based techniques. A full description of the local electrode atom probe – a new state-of-the-art instrument – is also provided, along with detailed descriptions and limitations of laser pulsing as a method to field evaporate atoms. Valuable coverage of the new ionization theory is also included, which underpins the overall technique.

**PROBE Reading Assessment Manual** Chris Parkin,Catherine Parkin,Brian Pool,2002-01-01

The Discovery and Utility of Chemical Probes in Target Discovery Paul Brennan,Saleta Vazquez Rodriguez,2020-11-17 Numerous genetic methods can be utilised to link a phenotype to a single molecular target but annotated

small molecule chemical probes and even entire chemogenomic libraries are increasingly being used as a complementary approach. This book will comprehensively cover the state of the art in chemical probes and best practice for use in target discovery, illustrated throughout with examples. Ideal for students and established biochemists, the book will also cover new technologies for probe discovery, new probe modalities, the new field of probes for RNA targets and the mature field of kinase chemical probes.

Uncovering Student Ideas in Science: 25 formative assessment probes Page Keeley, 2005 V. 1. Physical science assessment probes -- Life, Earth, and space science assessment probes.

**Atom Probe Microscopy** Baptiste Gault, Michael P. Moody, Julie M. Cairney, Simon P. Ringer, 2012-08-27 Atom probe microscopy enables the characterization of materials structure and chemistry in three dimensions with near-atomic resolution. This uniquely powerful technique has been subject to major instrumental advances over the last decade with the development of wide-field-of-view detectors and pulsed-laser-assisted evaporation that have significantly enhanced the instrument's capabilities. The field is flourishing, and atom probe microscopy is being embraced as a mainstream characterization technique. This book covers all facets of atom probe microscopy—including field ion microscopy, field desorption microscopy and a strong emphasis on atom probe tomography. Atom Probe Microscopy is aimed at researchers of all experience levels. It will provide the beginner with the theoretical background and practical information necessary to investigate how materials work using atom probe microscopy techniques. This includes detailed explanations of the fundamentals and the instrumentation, contemporary specimen preparation techniques, experimental details, and an overview of the results that can be obtained. The book emphasizes processes for assessing data quality, and the proper implementation of advanced data mining algorithms. Those more experienced in the technique will benefit from the book as a single comprehensive source of indispensable reference information, tables and techniques. Both beginner and expert will value the way that Atom Probe Microscopy is set out in the context of materials science and engineering, and includes references to key recent research outcomes.

**The Stocker Probe for Fluency and Language** Robert Goldfarb, Beatrice Stocker, 1995-03-01

Electron Probe Quantitation K.F.J. Heinrich, D. Newbury, 2013-06-29 In 1968, the National Bureau of Standards (NBS) published Special Publication 298 Quantitative Electron Probe Microanalysis, which contained proceedings of a seminar held on the subject at NBS in the summer of 1967. This publication received wide interest that continued through the years far beyond expectations. The present volume, also the result of a gathering of international experts, in 1988, at NBS (now the National Institute of Standards and Technology, NIST), is intended to fulfill the same purpose. After years of substantial agreement on the procedures of analysis and data evaluation, several sharply differentiated approaches have developed. These are described in this publication with all the details required for practical application. Neither the editors nor NIST wish to endorse any single approach. Rather, we hope that their exposition will stimulate the dialogue which is a prerequisite for technical progress. Additionally, it is expected that those active in research in electron probe microanalysis will appreciate more clearly the areas in which further investigations are warranted.

*Transonic Wind-tunnel Tests of an Error-compensated Static-pressure Probe* Francis J. Capone, 1961 An investigation of the pressure-sensing characteristics of an error-compensated static-pressure probe mounted on the nose section of a missile body has been conducted in the Langley 16-foot transonic tunnel. The probe was free to rotate about its roll axis and was equipped with a vane so that the crossflow velocity component due to angles of attack of sideslip was always aligned with the probe's vertical plane of symmetry. The probe was tested in five axial positions with respect to the missile nose at Mach numbers from 0.30 to 1.08 and at angles of attack from -2.7° to 15.3°. The test Reynolds number per foot varied from  $1.79 \times 10^6$  to  $4.05 \times 10^6$ . Results showed that at a Mach number of 1.00 the static-pressure error decreased from 3.5 percent to 0.8 percent of the free-stream static pressure, as a result of a change in orifice location from 0.15 maximum missile diameter to 0.20 maximum missile diameter forward of the missile nose. Although compensation for pressure-sensing errors due to angles of attack up to 15.3 was maintained at Mach numbers from  $M = 0.30$  to  $M = 0.50$ , there was an increase in error with an increase in angle of attack for Mach numbers between  $M = 0.50$  and  $M = 1.08$ .

**What Is a Space Probe?** Charles Richards, 2012-08-01 What Is a Space Probe? is aligned to the Common Core State Standards for English/Language Arts, addressing Literacy.RI.1.4 and Literacy.L.1.5. Large color photographs of famous planet probes such as the Explorer 1 and Pathfinder along with narrative nonfiction text illustrate the world of space and planet exploration. This book should be paired with ☐ Space Probes (9781448888696) from the Rosen Common Core Readers Program to provide the alternative point of view on the same topic.

**Phosphorescent Oxygen-Sensitive Probes** Dmitri Papkovsky, Alexander V. Zhdanov, Andreas Fercher, Ruslan I. Dmitriev, James Hynes, 2012-08-31 Biological O<sub>2</sub> sensing probes and measurement techniques were first introduced in the late 80s. In the last 3-5 years they have undergone major development that have made them available and affordable for a broad range of applications in various disciplines of the life and biomedical sciences. These new chemistries and technologies, which are significantly different from the majority of other fluorescence-based probes and detection techniques, have already demonstrated their high utility. This book will provide a systematic overview of the existing and emerging O<sub>2</sub> sensing technologies in their different modifications, a practical guide to their rational selection and use, and examples of biological applications/case studies, including details on how to set up and conduct such experiments, troubleshoot and interpret the data.

Galileo Probe Parachute Test Program Thomas N. Canning, 1988 The results of surveys of the near and far wake of the Galileo Probe are presented for Mach numbers from 0.25 to 0.95. The trends in the data resulting from changes in Mach number, radial and axial distance, angle of attack, and a small change in model shape are shown in crossplots based on the data. A rationale for selecting an operating volume suitable for parachute inflation based on low Mach number flight results is outlined.

*Night Probe!* Clive Cussler, 1982 American agent Dirk Pitt's deep-sea mission to recover a lost treaty by which Canada was sold to the United States is countered by the British and the Soviets.

Embark on a breathtaking journey through nature and adventure with this mesmerizing ebook, **Probe**. This immersive experience, available for download in a PDF format ( PDF Size: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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