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Robert Robinson, Chemist Extraordinary John Wiley & Sons

One of the most popular and widely known characters in all of fiction, Sherlock Holmes has an enduring appeal based largely on his uncanny ability to make the most remarkable deductions from the most mundane facts. The very first words that Sherlock Holmes ever says to Dr. Watson are, "How are you? You have been in Afghanistan, I perceive." Watson responds, "How on earth did you know that?" And so a crime-solving legend is born. In The Scientific Sherlock Holmes, James O'Brien provides an in-depth look at Holmes's use of science in his investigations. Indeed, one reason for Holmes's appeal is his frequent use of the scientific method and the vast scientific knowledge which he drew upon to solve mysteries. For instance, in heart of the book, the author reveals that Holmes was a pioneer of forensic science, making use of fingerprinting well before Scotland Yard itself had adopted the method. One of the more appealing aspects of the book is how the author includes real-world background on topics such as handwriting analysis, describing how it was used to capture the New York Zodiac killer and to clinch the case against the Lindbergh baby kidnapper. Sherlock Holmes was knowledgeable about several sciences, most notably chemistry. Therefore the book takes a close look at Holmes the chemist and discusses, for example, chemical poisons such as carbon monoxide, chloroform, and Prussic acid (the historical name for hydrogen cyanide). The author also debunks Isaac Asimov's famous assertion that Holmes was a blundering chemist. In addition, the book discusses mathematics, physics, biology, astronomy, meteorology, and geology, always in the context of Holmes's exploits. Sherlock Holmes continues to fascinate millions of readers and movie goers alike. The Scientific Sherlock Holmes is a must-read for the legion of fans of this most beloved of all fictional detectives.

The Autobiography of a Chemist Wiley-Interscience

This CD-ROM and textbook package introduces chemistry students to the world of molecular orbitals using 3D and VRML representations. An overview of the basic chemistry and physics needed enables readers to move quickly onto the CD. The CD-ROM itself contains an extended interactive textbook and a broad selection of classical organic compounds and inorganic complex ligands complete with their orbitals. Moreover, interactive demonstrations allow students to alter relevant parameters and watch the change in the orbitals'characteristics or take a walk through this fascinating 3D world.

A Narrative of the Life of David Crockett, of the State of Tennessee Write Like a ChemistA Guide and Resource

It was the British music critic Neville Cardus, writing on Debussy, who remarked how "the great sea of Wagner threatened to overwhelm the world of nineteenth century music". 1 There is an analogy in mid-nineteenth century agriculture where the great sea of Justus von Liebig developed a tidal wave which to this day conceals much of the original work and merit of others in the same field. Not only the general public but even students of agriculture may, or may not, recall the names of Persoz, Kuhlmann and Ville in France, Thaer and Sprengel in Germany, or even Lawes and Gilbert in England, to mention a few of them, whose pioneer works were not pub licised in the same didactic and polemical manner as those of Liebig. Among such pioneers was Jean Baptiste Boussingault (1802-1887) whose funda mental researches contributed to the emergence of agriculture from an empirical corpus of facts to the status of a science. Yet apart from his work in animal and crop science he also engaged in metallurgical investigations, biology and pure chemistry. The scientific world was already approaching the end of an era in which it was possible to embrace several disciplines adequately. With increasing specialisation, institutionalism and profeSsionalism in science the polymath was a gradually disappearing species.

The Life and Memories of George E. P. Box Wiley

A cool gift for chemists or anyone who tackles chemical research or laboratory experiments with chemicals . Chemistry experts will love the barcode design specially for this job or profession in the science field . 120 Wide Ruled White Pages 6"x9" Glossy Cover Great for writing projects, as a personal diary or a composition book Professional Quality Smooth paper for writingA perfect gift for adults, children, teens & tweens

A Guide and Resource Springer Nature

Write Like a ChemistA Guide and ResourceOxford University Press on Demand

An Accidental Statistician Cambridge University Press

The autobiography of Lord Todd of Trumpington is a general account of his life until 1980 with emphasis on the events that shaped his career as a distinguished scientist. In 1957 Alexander Todd was awarded the Nobel Prize for Chemistry. From 1963 to 1965 he was President of the International Union of Pure and Applied Chemistry. For five years he was President of the Royal Society. He made major contributions to the advancement of science education in Britain, and in the University of Cambridge. This delightfully presented autobiography is supplemented by extracts from five Presidential Addresses to the Royal Society. This book will appeal to anyone who enjoys reading biography. It will also have a special interest for professional chemists and those who study the making on contemporary science policy in Britain.

The Chemist's English Oxford University Press on Demand

Celebrating the life of an admired pioneer in statistics In this captivating and inspiring memoir, world-renowned statistician George E. P. Box offers a firsthand account of his life and statistical work. Writing in an engaging, charming style, Dr. Box reveals the unlikely events that led him to a career in statistics, beginning with his job as a chemist conducting experiments for the British army during World War II. At this turning point in his life and career, Dr. Box taught himself the statistical methods necessary to analyze his own findings when there were no statisticians available to check his work. Throughout his autobiography, Dr. Box expertly weaves a personal and professional narrative to illustrate the effects his work had on his life and vice-versa. Interwoven between his research with time series analysis, experimental design, and the quality movement, Dr. Box recounts coming to the United States, his family life, and stories of the people who mean the most to him. This fascinating account balances the influence of both personal and professional relationships to demonstrate the extraordinary life of one of the greatest and most influential statisticians of our time. An Accidental Statistician also features: • Two forewords written by Dr. Box's former colleagues and closest confidants • Personal insights from more than a dozen statisticians on how Dr. Box has influenced and continues to touch their careers and lives • Numerous, previously unpublished photos from the author's personal collection An Accidental Statistician is a compelling read for statisticians in education or industry, mathematicians, engineers, and anyone interested in the life story of an influential intellectual who altered the world of modern statistics.

Creations of Fire Bushnell Press

he history of chemistry is a story of human endeavor-and as er T ratic as human nature itself. Progress has been made in fits and starts, and it has come from all parts of the globe. Because the scope of this history is considerable (some 100,000 years), it is necessary to impose some order, and we have organized the text around three dis cemible-albeit gross--divisions of time: Part 1 (Chaps. 1-7) covers 100,000 BeE (Before Common Era) to the late 1700s and presents the background of the Chemical Revolution; Part 2 (Chaps. 8-14) covers the late 1700s to World War land presents the Chemical Revolution and its consequences; Part 3 (Chaps. 15-20) covers World War I to 1950 and presents the Quantum Revolution and its consequences and hints at revolutions to come. There have always been two tributaries to the chemical stream: experiment and theory. But systematic experimental methods were not routinely employed until the 1600s-and quantitative theories did not evolve until the 1700s-and it can be argued that modem chernistry as a science did not begin until the Chemical Revolution in the 1700s. xi xii PREFACE We argue however that the first experiments were performed by arti sans and the first theories proposed by philosophers-and that a rev olution can be understood only in terms of what is being revolted against.

The Critic Vch Verlagsgesellschaft Mbh

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A Time to Remember Longman Publishing Group

Trace Environmental Quantitative Analysis: Principles, Techniques, and Applications, Second Edition offers clear and relevant explanations of the principles and practice of selected analytical instrumentation involved in trace environmental quantitative analysis (TEQA). The author updates each chapter to reflect the latest improvements in TEQA that have resulted in greater levels of sensitivity. The book begins with an overview of regulatory and EPA methods, followed by quantitative data reduction and interpretation of analytical results, sample preparation, and analytical instrumentation. Among the more than two-dozen new topics are the underlying principles of GC-MS, GC-MS-MS, LC-MS, and ICP-MS, column chromatographic cleanup, gel permeation chromatography, applications to biological sample matrices, and matrix solid-phase dispersion. The chapter on sample preparation now includes more alternatives to liquid-liquid extraction, highlighting Solid Phase Microextraction (SPME), and Stir Bar Sorptive Extraction (SBSE). The final chapter contains laboratory-tested experiments to practice the techniques appearing in the text. Appendices include a convenient glossary, applications to drinking water, computer programs for TEQA, instrument designs, and useful Internet links for practicing environmental analytical chemists. Featuring personal insight into the theory and practice of trace analysis from a bench analytical chemist, the second edition of Trace Environmental Quantitative Analysis takes readers from the fundamental principles to state-of-the-art methods of TEQA currently used in leading laboratories.

The Science, Lives and Friendship of Two Pioneers in Chemistry Subterranean

PREFACE. THE Author of this very practical treatise on Scotch Loch - Fishing desires clearly that it may be of use to all who had it. He does not pretend to have written anything new, but to have attempted to put what he has to say in as readable a form as possible. Everything in the way of the history and habits of fish has been studiously avoided, and technicalities have been used as sparingly as possible. The writing of this book has afforded him pleasure in his leisure moments, and that pleasure would be much increased if he knew that the perusal of it would create any bond of sympathy between himself and the angling community in general. This section is interleaved with blank shects for the readers notes. The Author need hardly say that any suggestions addressed to the case of the publishers, will meet with consideration in a future edition. We do not pretend to write or enlarge upon a new subject. Much has been said and written-and well said and written too on the art of fishing but loch-fishing has been rather looked upon as a second-rate performance, and to dispel this idea is one of the objects for which this present treatise has been written. Far be it from us to say anything against fishing, lawfully practised in any form but many pent up in our large towns will bear us out when me say that, on the whole, a days loch-fishing is the most convenient. One great matter is, that the loch-fisher is depend- ent on nothing but enough wind to curl the water, -and

on a large loch it is very seldom that a dead calm prevails all day, -and can make his arrangements for a day, weeks beforehand whereas the stream-fisher is dependent for a good take on the state of the water and however pleasant and easy it may be for one living near the banks of a good trout stream or river, it is quite another matter to arrange for a days river-fishing, if one is looking forward to a holiday at a date some weeks ahead. Providence may favour the expectant angler with a good day, and the water in order but experience has taught most of us that the good days are in the minority, and that, as is the case with our rapid running streams, -such as many of our northern streams are, -the water is either too large or too small, unless, as previously remarked, you live near at hand, and can catch it at its best. A common belief in regard to loch-fishing is, that the tyro and the experienced angler have nearly the same chance in fishing, -the one from the stern and the other from the bow of the same boat. Of all the absurd beliefs as to loch-fishing, this is one of the most absurd. Try it. Give the tyro either end of the boat he likes give him a cast of ally flies he may fancy, or even a cast similar to those which a crack may be using and if he catches one for every three the other has, he may consider himself very lucky. Of course there are lochs where the fish are not abundant, and a beginner may come across as many as an older fisher but we speak of lochs where there are fish to be caught, and where each has a fair chance. Again, it is said that the boatman has as much to do with catching trout in a loch as the angler. Well, we dont deny that. In an untried loch it is necessary to have the guidance of a good boatman but the same argument holds good as to stream-fishing...

Wilhelm Homberg and the Académie Royale des Sciences Oxford University Press on Demand

This book reevaluates the changes to chymistry that took place from 1660 to 1730 through a close study of the chymist Wilhelm Homberg (1653–1715) and the changing fortunes of his discipline at the Académie Royale des Sciences, France's official scientific body. By charting Homberg's remarkable life from Java to France's royal court, and his endeavor to create a comprehensive theory of chymistry (including alchemical transmutation), Lawrence M. Principe reveals the period's significance and reassesses its place in the broader sweep of the history of science. Principe, the leading authority on the subject, recounts how Homberg's radical vision promoted chymistry as the most powerful and reliable means of understanding the natural world. Homberg's work at the Académie and in collaboration with the future regent, Philippe II d'Orléans, as revealed by a wealth of newly uncovered documents, provides surprising new insights into the broader changes chymistry underwent during, and immediately after, Homberg. A human, disciplinary, and institutional biography, The Transmutations of Chymistry significantly revises what was previously known about the contours of chymistry and scientific institutions in the early eighteenth century.

The Emergence of the British Coffeehouse Oxford University Press

A comprehensive set of real-world environmental laboratory experiments This complete summary of laboratory work presents a richly detailed set of classroom-tested experiments along with background information, safety and hazard notes, a list of chemicals and solutions needed, data collection sheets, and blank pages for compiling results and findings. This useful resource also: Focuses on environmental, i.e., "dirty" samples Stresses critical concepts like analysis techniques and documentation Includes water, air, and sediment experiments Includes an interactive software package for pollutant fate and transport modeling exercises Functions as a student portfolio of documentation abilities Offers instructors actual samples of student work for troubleshooting, notes on each procedure, and procedures for solutions preparation.

The Life and Memories of George E. P. Box Springer Science & Business Media

Excerpt from A Text-Book of Quantitative Chemical Analysis IN writing the present book the author has endeavored in the first place to produce a text-book on Quantitative Analysis which Shall meet his own needs in presenting the subject to his students. The text-books available did not give as thorough and at the same time as comprehensive a view of the subject as seemed desirable. In order to present the subject from the theoretical as well as from the practical standpoint, reference by the student to a very considerable number of text-books and journals seemed necessary. This was largely due to the fact that each author has given special prominence to a particular branch Of the subject, such as gravimetric, electrolytic, volumetric, or gas analysis. In the present text-book the endeavor has been made to accord each of these subjects the relative prominence which is justified by the extent to which the methods concerned are actually used. Obsolete methods and new methods which have not come into general use have generally been excluded. In the arrangement and presentation of the subject-matter the needs of the student rather than the experienced analyst have been kept continually in view The needs Of the student have been taken to be the acquisition of a thorough comprehension of the reasons for each step in an analysis as well as the develop ment of the Skill in manipulation which is necessary in rapid and accurate work. It is believed that by this method the require ments of the professional chemist will also be best served when a reference book is needed. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

So You Want to Be a Chemist Wiley

Emphasizing writing as a means to examining, evaluating, sharing, and refining ideas, A Short Guide to Writing about Chemistry will help chemists develop the language skills the field demands. This book covers the kinds of readings and writing that chemists are called on to do-from introductory to more advanced work-in academic and industrial settings, and in public life. With comprehensive coverage on topics including graphing programs, ACS formats, Science Citation Index, Merck Index, and writing abstracts, this book is a "must-have" for any aspiring chemist. This edition also provides updated coverage on the Internet, working with computers, and electronic sources. For anyone interested in a practical and rewarding guide to communicating successfully about chemistry.

Write Like a Chemist Yale University Press

Originally published in 1958, this book places the life of Robert Boyle in the wider context of seventeenth-century chemistry. Boas includes extracts from Boyle's writings to illustrate how his ideas and discoveries on theoretical matters influenced and were influenced by contemporary developments in practical chemistry, particularly those of Lavoisier. This book will be of value to anyone with an interest in chemistry and British contributions to science.

Notebook Wiley

Celebrating the life of an admired pioneer in statistics In this captivating and inspiring memoir, world-renowned statistician George E. P. Box offers a firsthand account of his life and statistical work. Writing in an engaging, charming style, Dr. Box reveals the unlikely events that led him to a career in statistics, beginning with his job as a chemist conducting experiments for the British army during World War II. At this turning point in his life and career, Dr. Box taught himself the statistical methods necessary to analyze his own findings when there were no statisticians available to check his work. Throughout his autobiography, Dr. Box expertly weaves a personal and professional narrative to illustrate the effects his work had on his life and vice-versa. Interwoven between his research with time series analysis, experimental design, and the quality movement, Dr. Box recounts coming to the United States, his family life, and stories of the people who mean the most to him. This fascinating account balances the influence of both personal and professional relationships to demonstrate the extraordinary life of one of the greatest and most influential statisticians of our time. An Accidental Statistician also features: • Two forewords written by Dr. Box's former colleagues and closest confidants • Personal insights from more than a dozen statisticians on how Dr. Box has influenced and continues to touch their careers and lives • Numerous, previously unpublished photos from the author's personal collection An Accidental Statistician is a compelling read for statisticians in education or industry, mathematicians, engineers, and anyone interested in the life story of an influential intellectual who altered the world of modern statistics.

Trace Environmental Quantitative Analysis Springer Science & Business Media

This book tells the story of two of the most important figures in the history of chemistry. Carl Wilhelm Scheele (1742–1786) was the first to prepare oxygen and realise that air is a mixture of nitrogen and oxygen; he also discovered many important organic and inorganic substances. His fellow chemist and good friend, Torbern Bergman (1735–1784), was one of the pioneers in analytical and physical chemistry. In this carefully researched biography, the author, Anders Lennartson, explains the chemistry of Scheele and Bergman while putting their discoveries in the context of other 18th-century chemistry. Much of the information contained in this work is available in English for the first time.

Songs of a Dead Dreamer University of Chicago Press

A cool gift for chemists or anyone who tackles chemical research or laboratory experiments with chemicals . Chemistry experts will love the barcode design specially for this job or profession in the science field . 120 Wide Ruled White Pages 6"x9" Glossy Cover Great for writing projects, as a personal diary or a composition book Professional Quality Smooth paper for writingA perfect gift for adults, children, teens & tweens

Spectrum Analysis CRC Press

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