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The microanalytical technique of atom probe tomography (APT) permits the spatial coordinates and elemental identities of the individual atoms within a small volume to be determined with near atomic resolution. Therefore, atom probe tomography provides a technique for acquiring atomic resolution three dimensional images of the solute distribution within the microstructures of materials. This monograph is designed to provide researchers

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and students the necessary information to plan and experimentally conduct an atom probe tomography experiment. The techniques required to visualize and to analyze the resulting three-dimensional data are also described. The monograph is organized into chapters each covering a specific aspect of the technique. The development of this powerful microanalytical technique from the origins of field ion microscopy in 1951, through the first three-dimensional atom probe prototype built in 1986 to today's commercial state-of-the-art three dimensional atom probe is

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documented in chapter 1. A general introduction to atom probe tomography is also presented in chapter 1. The various methods to fabricate suitable needle-shaped specimens are presented in chapter 2. The procedure to form field ion images of the needle-shaped specimen is described in chapter 3. In addition, the appearance of microstructural features and the information that may be estimated from field ion microscopy are summarized. A brief account of the theoretical basis for processes of field ionization and field evaporation is also included.

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Milestones in the techniques and methodology of polypeptide structure determination include the determination of the sequence of insulin by Sanger in 1951 (1) and the introduction of the repetitive degradation of proteins with phenylisothiocyanate by Edman in 1959 (2). The automation of Edman chemistry (3) played a major role in the determination of polypeptide structures. Important modifications of Edman chemistry include the solid-phase approach by Laursen in 1971 (4) and the use of modified Edman reagents such as 4-N, N-dimethylaminoazobenzene-4'-iso

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thiocy- ate (DABITC) for manual sequencing by Chang et al. (5) in 1976. A second major breakthrough in the analysis of polypeptides was automated amino acid analysis described by Spackman et al. in 1958 (6). However, during the period from 1975 to 1980, it became increasingly clear that the amount of material required for structural analysis was more than could be easily isolated for the vast majority of proteins. The field was criticized for its lack of sensitive techniques for the analysis of growth factors, immune modulators, membrane receptors, and peptide

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hormones. In addition, very little had been done to modernize and improve the original instruments introduced in the mid-1960s. The first indications of improved instrumentation for Edman chemistry came from Wittmann-Liebold's laboratory (7), followed by the introduction of a "micro" sequencer by Hunkapiller and Hood in 1978 (8). The movement toward improved instrumentation culminated in the "gas"--Phase sequencer of Hewick et al. (9) in 1981

Get ready for another awesome year of gaming with this ultimate guide to the best games including a definitive list of the

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biggest games of the past year and the new ones coming in 2018. Game On! 2018, the most comprehensive guide to all the best games, tech, and YouTube stars, features some of the year's greatest moments including exclusive interviews with YouTube legends like Minecraft superstar CaptainSparklez, top streamers and game developers. This complete guide is packed with information on all the latest gaming hardware, tech, and essential mobile games. Also includes the best gaming secrets, stats, tips, and tricks to help unlock achievements and trophies on games like Pokmon

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Sun & Moon, LEGO Worlds, Zelda: Breath of the Wild, and so much more! All games featured in Game On! 2018 are rated T for Teen or younger keeping it appropriate for young gamers.

Brain Games

Manual of Pesticide Residue Analysis, Manual of Pesticide Residue Analysis V II

Trees Up Close

*The Slide-rule, and how to Use it
Diff in June*

Analysis at the Atomic Level

**Manual of Pesticide
Residue Analysis, Manual
of Pesticide Residue
Analysis V IIWiley-VCH
Synthetic mRNA is an**

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attractive tool for mammalian cell reprogramming that can be used in basic research, as well as in clinical applications. Present mRNA in vitro synthesis is a rather simple procedure, which delivers a high yield of quality product. Various modifications may be introduced into the mRNA by changing the sequence of the DNA template, by modifying the reaction of transcription, or by post-transcriptional

modification. mRNA, as a transfection agent, has several advantages over DNA, as mRNA expression is not dependent on nuclear entry and occurs directly in the cytosol. Synthetic Messenger RNA and Cell Metabolism Modulation: Methods and Protocols covers the typical main methods, such as mRNA synthesis, modifications, and delivery. Examples of cell reprogramming and analysis in the fields of immunotherapy and stem cell research are also

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included. Written in the successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Synthetic Messenger RNA and Cell Metabolism Modulation: Methods and Protocols will be of interest to

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**researchers, clinicians,
and biotech companies
interested in mRNA-
mediated cell
reprogramming.
Cryogenics is the study of
low temperature
interactions -
temperatures well below
those existing in the
natural universe. The
book covers a large
spectrum of experimental
cases, including basic
vacuum techniques,
indispensable in
cryogenics. Guidance in
solving experimental
problems and numerous**

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numerical examples are given, as are examples of the applications of cryogenics in such areas as underground detectors and space applications. Updated tables of low-temperature data on materials are also presented, and the book is supplemented with a rich bibliography. Researchers (graduate and above) in the fields of physics, engineering and chemistry with an interest in the technology and applications of low-temperature

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**measurements, will find
this book invaluable.**

**Experiments described in
technical detail**

**Description of newest
cryogenic apparatus**

**Applications in
multidisciplinary areas**

**Data on cryogenic
properties of new**

**materials Current
reference review**

All the Best Games:

**Awesome Facts and
Coolest Secrets**

Analog Circuits Cookbook

Ausgewählte

Bibliographie zur

Psycholinguistik und

Sprachpsychologie
wireless java
programming for
enterprise applications
National Solar Heating
and Cooling Commercial
Demonstration Program
Biocompatibility of Dental
Materials

The critically acclaimed laboratory standard, Methods in Enzymology, is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. The series

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contains much material still relevant today - truly an essential publication for researchers in all fields of life sciences.

This volume presents advanced synthesis techniques for fabricating Perovskite materials with enhanced properties for applications such as energy storage devices, photovoltaics, electrocatalysis, electronic devices, photocatalysts, sensing, and biomedical instruments. The book attempts to fill a gap in the published literature and provide a detailed reference on Perovskite materials. This

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book will be of use to graduate students and academic and industrial researchers in the fields of solid-state chemistry, physics, materials science, and chemical engineering.

This edition includes updated case studies, illustrations and failure investigations.

Examples and photos include space-part production and test failures in electrical interconnects, structural welds, and corrosion and storage induced problems.

*The Latin Language
Atom Probe Tomography
Additives for Plastics
Handbook
Who's who in Electronics*

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Fungal Metabolites Cracking the Code 3

Capillary electrophoresis (CE) is a powerful and rapid tool for performing complex analyses of a number of different molecular species ranging from small inorganic ions to large nucleic acid fragments and proteins. It is quickly becoming established as a useful tool in clinical medicine due to its consumption of minute samples (less than a microlitre), low reagent costs, and extreme sensitivity, depending upon the source of

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detection used. Clinical Applications of Capillary Electrophoresis aims to give an in-depth manual of CE applications in several important areas of clinical science. Divided into seven sections, this volume provides a brief overview of how CE has been applied in clinical settings, followed by several chapters on CE analysis of important diagnostic molecules and biofluids, as well as descriptions of applications in clinical chemistry, hematology, bacteriology, virology,

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disease-associated biomarker discovery, immunology and genetic analysis. Written in the successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *Clinical Applications of Capillary Electrophoresis* seeks to serve as a valuable source

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of information not only for clinical pathologists, but also clinical scientists who wish to apply the technique to diagnosis and research. Trees Up Close offers an intimate, revealing look at the beauty of leaves, flowers, cones, fruits, seeds, buds, bark, and twigs of the most common trees. With more than 200 dazzling photos, you will be amazed by the otherworldly beauty of the acorns from a sawtooth oak, enchanted by the immature fruits of a red maple, and dazzled by the

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delicate emerging flowers of the American elm.

Want to know how to use an electronic component? This third book of a three-volume set includes key information on electronics parts for your projects--complete with photographs, schematics, and diagrams. You'll learn what each one does, how it works, why it's useful, and what variants exist. No matter how much you know about electronics, you'll find fascinating details you've never come across before. Perfect for teachers, hobbyists,

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engineers, and students of all ages, this reference puts reliable, fact-checked information right at your fingertips--whether you're refreshing your memory or exploring a component for the first time. Beginners will quickly grasp important concepts, and more experienced users will find the specific details their projects require. Volume 3 covers components for sensing the physical world, including light, sound, heat, motion, ambient, and electrical sensors.

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Unique: the first and only encyclopedia set on electronic components, distilled into three separate volumes
Incredibly detailed: includes information distilled from hundreds of sources
Easy to browse: parts are clearly organized by component type
Authoritative: fact-checked by expert advisors to ensure that the information is both current and accurate
Reliable: a more consistent source of information than online sources, product

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datasheets, and
manufacturer's tutorials
Instructive: each
component description
provides details about
substitutions, common
problems, and workarounds
Comprehensive: Volume 1
covers power,
electromagnetism, and
discrete semi-conductors;
Volume 2 includes
integrated circuits, and
light and sound sources;
Volume 3 covers a range of
sensing devices.
Hormone Action, Part A,
Steroid Hormones
Tom Kundig
Liposomes

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Key Personnel Directory
for Spacecraft and High
Reliability Applications
Heat-induced Bone Tissue
Injury

The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications; these could cover a wide range of fields, from light-weight structures to electronic hardware. The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can, by analogy, be applied to other industries. Difficult-to-find material data is included for reference. The

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sciences of metallic (primarily) and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes, which involve quality, material and processes evaluations, and the selection of mechanical and component parts. In this successor edition, which has been revised and updated, engineering problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs. Space hardware captured by astronauts and returned to Earth from long durations in space are examined.

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Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics, medical equipment and ground transportation. This Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering. It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic sub-systems. Authoritative survey of the natural, modified, and synthetic water-soluble resins and gums now available commercially.

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This collection of up-to-date methods for analyzing pesticide residues represents those proven methods that are of most value to the analyst. The methods chosen demonstrate a particularly high standard of reliability and have all been validated by at least one other specially qualified laboratory. They are also presented in such detailed and readily understandable form that analysts using them cannot possibly be left in doubt about how to proceed. Each of the single methods specifies the substrates to which it is suited and on which it has been validated, among them food crops, stored commodities, processed food of vegetable and animal origin, feedstuffs, forage

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and fodder crops, soil, and water. Both Volumes arrange the compound-specific methods in the alphabetical order of the compound names. They also contain indexes to provide quick access to the desired method. The single methods each contain the chemical name and the structural formula of the respective compound. Multiple methods are preceded by a table in which chemical names and structural formulae are presented jointly for all compounds.

Global Diagnosis

Clinical Applications of Capillary
Electrophoresis

Containing Full, Easy, and Simple
Instructions to Perform All

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Business Calculations with
Unexampled Rapidity and Accuracy
Biological Innovations that Built
the World

The Art of Cryogenics

Evaluation Engineering

*"Diff in June" tells a day
in the life of a personal
computer, written by itself
in its own language, as a
sort of private log or
intimate diary focused on
every single change to the
data on its hard disk. Using
a small custom script, for
the entire month of June
2011 Martin Howse registered
each chunk of data which had
changed within the file
system from the previous
day's image. Excluding*

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binary data, one day's sedimentation has been published in this book, a novel of data archaeology in progress tracking the overt and the covert, merging the legal and illegal, personal and administrative, source code and frozen systematics. Martin Howse (London 1969 - www.1010.co.uk) is a programmer, writer, performer and explorer. He is a co-founder of micro-research, a mobile platform for psychogeophysical research with ongoing projects in Berlin, London, Suffolk and Peenemuende. Over the last ten years he has workshopped, performed, lectured and exhibited

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worldwide.

This book provides a comprehensive and scientifically based overview of the biocompatibility of dental materials. Up-to-date concepts of biocompatibility assessment are presented, as well as information on almost all material groups used in daily dentistry practice. Furthermore, special topics of clinical relevance (e.g., environmental and occupational hazards and the diagnosis of adverse effects) are covered. The book will: improve the reader's ability to critically analyze

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information provided by manufacturers supply a better understanding of the biocompatibility of single material groups, which will help the reader choose the most appropriate materials for any given patient and thus prevent adverse effects from developing provide insights on how to conduct objective, matter-of-fact discussions with patients about the materials to be used in dental procedures advise readers, through the use of well-documented concepts, on how to treat patients who claim adverse effects from dental materials feature clinical photographs that will serve

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as a reference when analyzing clinical symptoms, such as oral mucosa reactions.

Analog Circuits Cookbook is a collection of tried and tested recipes form the masterchef of analog and RF design. Based on articles from Electronics World, this book provides a diet of high quality design techniques and applications, and proven circuit designs, all concerned with the analog, RF and interface fields of electronics. Ian Hickman uses illustrations and examples rather than tough mathematical theory to present a wealth of ideas and tips based on his own

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workbench experience. This second edition includes 10 of Hickman's latest articles, alongside 20 of his most popular classics. The new material includes articles on power supplies, filters using negative resistance, phase noise and video surveillance systems. Essential reading for all circuit design professionals and advanced hobbyists

Contains 10 of Ian Hickman's latest articles, alongside 20 of his most popular classics

Game On! 2018

An Historical Account of Latin Sounds, Stems and Flexions

Synthetic Messenger RNA and

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*Cell Metabolism Modulation
Works*

*The Australian Official
Journal of Trademarks*

Water-soluble Resins

Twenty five years have elapsed since the original publication of Helium Cryogenics. During this time, a considerable amount of research and development involving helium fluids has been carried out culminating in several large-scale projects. Furthermore, the field has matured through these efforts so that there is now a broad engineering base to assist the development of future projects. Helium Cryogenics, 2nd edition brings these advances in helium cryogenics together in an updated

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form. As in the original edition, the author's approach is to survey the field of cryogenics with emphasis on helium fluids. This approach is more specialized and fundamental than that contained in other cryogenics books, which treat the associated range of cryogenic fluids. As a result, the level of treatment is more advanced and assumes a certain knowledge of fundamental engineering and physics principles, including some quantum mechanics. The goal throughout the work is to bridge the gap between the physics and engineering aspects of helium fluids to provide a source for engineers and scientists to enhance their usefulness in low-temperature

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systems. Dr. Van Sciver is a Distinguished Research Professor and John H. Gorrie Professor of Mechanical Engineering at Florida State University. He is also a Program Director at the National High Magnetic Field Laboratory (NHMFL). Dr. Van Sciver joined the FAMU-FSU College of Engineering and the NHMFL in 1991, initiating and teaching a graduate program in magnet and materials engineering and in cryogenic thermal sciences and heat transfer. He also led the NHMFL development efforts of the cryogenic systems for the NHMFL Hybrid and 900 MHz NMR superconducting magnets. Between 1997 and 2003, he served as Director of Magnet Science and

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Technology at the NHMFL. Dr. Van Sciver is a Fellow of the ASME and the Cryogenic Society of America and American Editor for the journal Cryogenics. He is the 2010 recipient of the Kurt Mendelssohn Award. Prior to joining Florida State University, Dr. Van Sciver was Research Scientist and then Professor of Nuclear Engineering, Engineering Physics and Mechanical Engineering at the University of Wisconsin-Madison from 1976 to 1991. During that time he also served as the Associate Director of the Applied Superconductivity Center. Dr. Van Sciver received his PhD in Low Temperature Physics from the University of Washington-Seattle in

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1976. He received his BS degree in Engineering Physics from Lehigh University in 1970. Dr. Van Sciver is author of over 200 publications and patents in low temperature physics, liquid helium technology, cryogenic engineering and magnet technology. The first edition of Helium Cryogenics was published by Plenum Press (1986). The present work is an update and expansion of that original project. This book is crammed with puzzles designed to stimulate each of your brain's cognitive functions, keeping it strong and fit. Many different types of puzzles are included, and each of the five levels increases the challenge of solving them. Includes three self-evaluations that allow you

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to assess your improvement in areas such as focus, attention, memory, and more. With these puzzles, exercising your brain can be fun! The consultant is Dr. Elkhorn Goldberg, a Ph.D. neuropsychologist who created the Manhattan-based Cognitive Enhancement Program, a fitness center for the brain and who wrote *The Executive Brain: Frontal Lobes and the Civilized Mind*; and *The Wisdom Paradox: How Your Mind Can Grow Stronger as Your Brain Grows Older*.

Both technically and economically, additives form a large and increasingly significant part of the polymer industry, both plastics and elastomers. Since the first edition of

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this book was published, there have been wide-ranging developments, covering chemistry and formulation of new and more efficient additive systems and the safer use of additives, both by processors in the factory and, in the wider field, as they affect the general public. This new edition follows the successful formula of its predecessor, it provides a comprehensive view of all types of additives, concentrating mainly on their technical aspects (chemistry/formulation, structure, function, main applications) with notes on the commercial background of each. The field has been expanded to include any substance that is added to a polymer to improve its use, so

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including reinforcing materials (such as glass fibre), carbon black and titanium dioxide. This is a book which has been planned for ease of use and the information is presented in a way which is appropriate to the users' needs.

An in Vivo Investigation of Heat Tolerance of Bone Tissue and Temperature Rise in the Drilling of Cortical Bone

Methods and Protocols

Revolution of Perovskite

Metallurgical Assessment of Spacecraft Parts, Materials, and Processes

Encyclopedia of Electronic Components Volume 3

Materials and Processes

The book is a detailed

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account of major biological events that contributed to create the present world and our species, with emphasis on cause-effect interrelationships and environmental impact. Its main goal is to guide the reader toward an understanding of the continuity of life across diversity, and of its large-scale interactions with the planet. Combining scientific soundness with a constant effort for clarity, the book begins with a cloud of dust in a corner of the Galaxy and, covering an immense lapse of time, terminates with an organism that ponders about the texture of

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the Universe. Comprehensive, updated references added to each chapter will help the reader wishing to expand any of the topics. A glossary explains less common technical terms.

Humble beans are the true MVPs of the kitchen. They have a long shelf life, are packed with protein, and best of all, they taste great in a wide variety of applications. This collection of 20 foolproof recipes gives beans their due, putting them center stage in recipes such as Ultracreamy Hummus (you've never had homemade hummus this velvety-smooth) and White Bean and Tuna Salad

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(two pantry-friendly ingredients come together for a dish that's greater than the sum of its parts). We share the secrets to making light and crispy Falafel as well as irresistible soups and sides. Whether you're looking for breakfast inspiration (our recipe for Scrambled Eggs with Pinto Beans and Cotija Cheese delivers tender eggs with a mildly spicy kick), internationally inspired mains such as Palak Dal (Spinach Dal with Cumin and Mustard Seeds) and Tuscan Shrimp and Beans, or hearty vegetarian dishes such as Black Bean Burgers and

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Meatless "Meat" Sauce with Chickpeas and Mushrooms, this collection gives you 20 great reasons to put beans on the menu.

In Tom Kundig: Works, the celebrated Seattle-based architect presents nineteen new projects, from Hawaii to New York City. Kundig's award-winning houses, known for their rugged yet elegant and welcoming style, are showcased in lush photography with drawings and sketches, and appear alongside his commercial work—from multistory complexes to the Tacoma Art Museum to a line of hardware (handles, door pulls, hinges, and more). In

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*firsthand accounts, Kundig describes the projects and his design process with many personal anecdotes, making Tom Kundig: Works as much memoir as monograph. The book also includes an introduction by design editor Pilar Viladas and in-depth conversations with Kundig's frequent collaborators—"gizmologist" Phil Turner and contractor Jim Dow (Schuchart/ Dow)—and clients (Bigwood Residence and Studhorse).
Sensors for Location, Presence, Proximity, Orientation, Oscillation, Force, Load, Human Input, Liquid and Gas Properties, Light, Heat, Sound, and*

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Electricity

Biology 12

***A New Vision of Dental
Diagnosis and Treatment
Planning***

***Bio-anthropological Studies
of Early Holocene Hunter-
gatherer Sites at Huiyaotian
and Liyupo in Guangxi, China***

A Practical Handbook

Helium Cryogenics

The Roman Government of Britain contains biographical entries on the hundreds of known Romans who served in Britain from AD 43 to 409. Evidence for imperial visits is discussed, and the Roman career-structure is explained. All the ancient evidence is quoted in full

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and translated, making this book the fullest available collection of sources for Britain under Roman rule.

A Four-billion-year Journey through Life and Earth History

The Beauty of Their Bark, Leaves, Flowers, and Seeds
Low-Temperature Experimental Techniques

The Roman Government of Britain

Technical Report E.