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Update to: Crystals, X-
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Crystallography may be described as the science of the structure of materials, using this word in its widest sense, and its ramifications are apparent over a broad front of current scientific endeavor. It

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is not surprising,
therefore, to find that
most universities offer
some aspects of
crystallography in
their undergraduate
courses in the
physical sciences. It is
the principal aim of
this book to present
an introduction to
structure
determination by X-
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that is appropriate
mainly to both final-
year undergraduate
studies in
crystallography,
chemistry, and
chemical physics, and
introductory post
graduate work in this
area of
crystallography. We
believe that the book
will be of interest in
other disciplines, such

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as physics,
metallurgy,
biochemistry, and
geology, where
crystallography has
an important part to
play. In the space of
one book, it is not
possible either to
cover all aspects of
crystallography or to
treat all the subject
matter completely
rigorously. In

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particular, certain mathematical results are assumed in order that their applications may be discussed. At the end of each chapter, a short bibliography is given, which may be used to extend the scope of the treatment given here. In addition, reference is made in the text to specific

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information. We have chosen not to discuss experimental methods extensively, as we consider that this aspect of crystallography is best learned through practical experience, but an attempt has been made to simulate the interpretive side of

Get Free Crystals X Rays Experimental crystallography in both examples and exercises.

This book gives a thorough treatment of the rapidly-expanding field of coherent x-ray optics, which has recently experienced something of a renaissance with the availability of third-

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synchrotron sources.

It is the first book of its kind. The author begins with a treatment of the fundamentals of x-ray diffraction for both coherent and partially coherent radiation, together with the interactions of x-rays with matter. X-ray sources, optics

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Proteins and
detectors are then
discussed, with an
emphasis on their role
in coherent x-ray
optics. Various facets
of coherent x-ray
imaging are then
discussed, including
holography,
interferometry, self
imaging, phase
contrast and phase
retrieval. Lastly, the

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Foundations of the new field of singular x-ray optics are examined. Most topics are developed from first principles, with numerous references given to the contemporary research literature. This book will be useful to x-ray physicists and students, together

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with optical physicists
and engineers who
wish to learn more
about the fascinating
subject of coherent x-
ray optics.

With the development
of potent x-ray
sources, Compton
scattering has
become a standard
tool for studying
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Materials. This text looks at the Compton scattering method, leading to a fundamental understanding of the electrical and magnetic properties of solid materials, both elements and compounds.

This is one of the first books dedicated to

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the emerging field of neutron protein crystallography (NPC). The text covers all of the practical aspects of NPC, from the basic background of neutron scattering and diffraction, to the technical details of neutron facilities, growth of high-quality crystals, and data

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analysis. The final chapter is devoted to providing many examples of using NPC to investigate a wide range of different proteins. It demonstrates how NPC can explore hydrogen bonds, protonation and deprotonation of amino acid residues, hydration structures,

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and hydrogen-to-deuterium exchange ratios. To avoid redundancy with other textbooks on X-ray protein crystallography (XPC), this book assumes a familiarity with the basics of XPC and strives to highlight and explain the differences between XPC and

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NPC. It is therefore especially useful for X-ray protein crystallographers who are eager to have a sound, scientific basis for judging if NPC is the right technique for furthering their experimental programs.

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which characterise
the field of healthcare.
A range of
experienced
contributors come
together to provide: □
detailed analysis of
confidentiality,
accountability,
consent, capacity and
justice, all grounded
within the daily
practice context; □
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through discussion of legal cases, excerpts from statutes and extracts from professional guidelines; □ realistic scenarios drawn from a range of health settings, unravelling and illustrating the guidelines, statutes and policies which influence practice; □ advice on balancing

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the conflicting pressures of the modern healthcare context, from facing time limitations to challenging the unprofessional practice of others. Ethics, Law and Professional Issues puts you at the centre of some of a practitioner's most difficult decisions. It is

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Therefore an essential resource for any student of healthcare looking to develop an ethically, legally and professionally sound approach to practice.

Thermodynamics is fundamental to university and college curricula in chemistry, physics, engineering and many life

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sciences around the world. It is also notoriously difficult for students to understand, learn and apply. What makes this book different, and special, is the clarity of the text. The writing style is fluid, natural and lucid, and everything is explained in a logical and transparent

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Thermodynamics is a deep, and important, branch of science, and this book does not make it "easy". But it does make it intelligible. This book introduces a new, 'Fourth Law' of Thermodynamics' based on the notion of Gibbs free energy, which underpins

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Protein
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almost every application of thermodynamics and which the authors claim is worthy of recognition as a 'law'. The last four chapters bring thermodynamics into the twenty-first century, dealing with bioenergetics (how living systems capture and use free energy), macromolecule

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assembly (how proteins fold), and macromolecular aggregation (how, for example, virus capsids assemble). This is of great current relevance to students of biochemistry, biochemical engineering and pharmacy, and is covered in very few

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other texts on thermodynamics. The book also contains many novel and effective examples, such as the explanation of why friction is irreversible, the proof of the depression of the freezing point, and the explanation of the biochemical standard state.

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stimulating exercises
designed to help you
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