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This book lays the foundations of the theory of fluctuating multivalued fields with numerous applications. Most

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prominent among these are phenomena dominated by the statistical mechanics of line-like objects, such as the phase transitions in superfluids and superconductors as well as the melting process of crystals, and the electromagnetic

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potential as a multivalued field that can produce a condensate of magnetic monopoles. In addition, multivalued mappings play a crucial role in deriving the physical laws of matter coupled to gauge fields and gravity with torsion from the laws of free

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matter. Through careful analysis of each of these applications, the book thus provides students and researchers with supplementary reading material for graduate courses on phase transitions, quantum field theory, gravitational physics, and differential

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geometry.

The book is about calorimetry and thermal analysis methods, alone or linked to other techniques, as applied to the characterization of catalysts, supports and adsorbents, and to the study of catalytic reactions in various domains: air and

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wastewater treatment, clean and renewable energies, refining of hydrocarbons, green chemistry, hydrogen production and storage. The book is intended to fill the gap between the basic thermodynamic and kinetics concepts acquired by students during their academic

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formation, and the use of experimental techniques such as thermal analysis and calorimetry to answer practical questions. Moreover, it supplies insights into the various thermal and calorimetric methods which can be employed in studies aimed at

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characterizing the physico-chemical properties of solid adsorbents, supports and catalysts, and the processes related to the adsorption-desorption phenomena of the reactants and/or products of catalytic reactions. The book also covers the basic concepts for physico-



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comprehension of the relevant phenomena. Thermodynamic and kinetic aspects of the catalytic reactions can be fruitfully investigated by means of thermal analysis and calorimetric methods, in order to better understand the sequence of the

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elemental steps in the catalysed reaction. So the fundamental theory behind the various thermal analysis and calorimetric techniques and methods also are illustrated.

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Calorimetry, as a technique for thermal analysis, has a wide range of applications which are not only limited to studying the

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thermal  
characterisation  
(e.g. melting  
temperature,  
denaturation  
temperature and  
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of small and large  
drug molecules,  
but are also  
extended to  
characterisation of

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fuel, metals and oils. Differential Scanning Calorimetry is used to study the thermal behaviours of drug molecules and excipients by measuring the differential heat flow needed to

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thank those who  
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sessions during the  
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Aqueous Solutions  
of Electrolytes is a

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handbook that systematizes the information on physico-chemical parameters of multicomponent aqueous electrolyte solutions. This important data collection will be invaluable for developing new

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has been  
substantially revised  
and augmented.

Many new tables  
have been added  
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significantly larger  
list of electrolytes  
and their properties  
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deals with the methods for calculating their properties in multicomponent systems. All values are given in PSI units or fractional and multiple units.

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methods used for the determination of physico-chemical parameters are indicated as a relative error and those of the computational methods as a relative error or a root-mean square deviation.

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**oversimplifying.  
Physics is a  
description of  
reality, and thus  
each topic begins  
with concrete  
observations and  
experiences that  
readers can  
directly relate to.  
We then move on  
to the**

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and more formal  
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topic. Not only  
does this make  
the material more  
interesting and  
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understand, but it  
is closer to the  
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**Market**

**Description: This book is written for readers interested in learning the basics of physics.**

**In the past decades, the scan rate range of calorimeters**

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**has been  
extended  
tremendously at  
the high end,  
from  
approximately 10  
up to 10 000 000  
°C/s and more.  
The combination  
of various  
calorimeters and  
the newly-**

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**developed Fast  
Scanning  
Calorimeters  
(FSC) now span  
11 orders of  
magnitude, by  
which many  
processes can be  
mimicked  
according to the  
time scale(s) of  
chemical and**

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**physical transitions occurring during cooling, heating and isothermal stays in case heat is exchanged. This not only opens new areas of research on polymers, metals,**

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**pharmaceuticals  
and all kinds of  
substances with  
respect to glass  
transition,  
crystallization  
and melting  
phenomena, it  
also enables in-  
depth study of  
metastability and  
reorganization of**

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**samples on an 1 to 1000 ng scale. In addition, FSC will become a crucial tool for understanding and optimization of processing methods at high speeds like injection molding. The**

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**book resembles  
the state-of-the  
art in Thermal  
Analysis &  
Calorimetry and  
is an excellent  
starting point for  
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**Information  
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Serway/Vuille's  
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Scientific and  
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Particle physics is the science that pursues the age-old quest for the innermost structure of matter and the fundamental

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interactions  
between its  
constituents.

Modern experiments  
in this field rely  
increasingly on  
calorimetry, a  
detection technique  
in which the  
particles of interest  
are absorbed in the  
detector.

Calorimeters are

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very intricate instruments. Their performance characteristics depend on subtle, sometimes counter-intuitive design details. This book, written by one of the world's foremost experts, is the first comprehensive text on this topic. It

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provides a  
fundamental and  
systematic  
introduction to  
calorimetry. It  
describes the state  
of the art in terms of  
both the  
fundamental  
understanding of  
calorimetric particle  
detection, and the  
actual detectors that

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have been or are being built and operated in experiments. The last chapter discusses landmark scientific discoveries in which calorimetry has played an important role. This book summarizes and puts into perspective the

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work described in some 900 scientific papers, listed in the bibliography. This second edition emphasizes new developments that have taken place since the first edition appeared in 2000. The research reported in the third volume of Analytical

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Calorimetry covers a wide variety of topics. The variety indicates the sophistication which thermal analysis is reaching and addition ally the ever widening applications that are being developed, Advances in instrumentation

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include:

microcalorimeter design, development and refinement of titration calorimetry, definition of further theory of scanning calorimetry, studies of the temperature of resolution of thermistors, and a refinement of the



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effluent gas analysis technique and its application to agricultural chemicals as well as organic materials. A wide variety of applications is reported. These cover the fields of polymeric materials, dental materials, inorganic proteins,

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biochemical materials, gels, mixed crystals, and other specialized areas. Contributions also include applications of important related techniques such as thermomechanical and thermogravimetric analysis. The

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contributions to this  
Volume represent  
papers presented  
before the Division  
of Analytical  
Chemistry at the  
Third Symposium  
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the 167th National  
Meeting of the  
American Chemical  
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April 5, 1974.

A very small calorimeter probe (0.001 by 0.25 cm) for measuring local power density in high-energy ion beams has been studied both theoretically and experimentally. For high sensitivity, the wire is heated by a

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detection current; the change in wire temperature due to ion impingement results in a voltage output. Both ion and joulean heat inputs are balanced by conduction along the wire to cooled supports. A steady-state calibration and error analysis is

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supported by  
experiment. Power-  
density  
measurements in 1-  
to 20-kilovolt cesium  
and mercury ion  
beams are  
presented as  
detailed spatial  
profile and contour  
maps. An analysis  
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wire calorimeter was also verified by calibration experiments.

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provides  
measurement  
guidelines in  
order to obtain  
the best results.  
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optimized  
knowledge for  
users of this  
technique,  
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**Thermal and Energetic Studies of Cellular Biological Systems reviews literature on thermal and energetic changes which occur in living organisms. It was commissioned at the suggestion of**

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**Dr. Philip Edge  
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discussion of  
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**and metabolism  
in bacteria and  
yeasts,  
metabolism and  
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in whole tissues  
or organs, and  
animal cells and  
energy  
requirements in  
biological  
systems. This  
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of Non-Reacting  
Systems covers the  
heat capacity  
determinations for  
chemical substances  
in the solid, liquid,  
solution, and vapor  
states, at  
temperatures ranging  
from near the



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absolute zero to the highest at which calorimetry is feasible. This book is divided into 14 chapters. The first four chapters provide background information and general principles applicable to all types of calorimetry of non-reacting systems. The remaining 10 chapters deal with specific

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types of calorimetry. Most of the types of calorimetry treated are developed over a considerable period and brought to a relatively sophisticated state. For such calorimetry, the approach adopted is to give detailed accounts of a few examples of apparatus and

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techniques representative of the best current practice in the field. For the few types of calorimetry, a general review of the field was considered more appropriate. This book will prove useful to thermochemists, engineers, and experimentalists.

Textbook and

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reference source for  
scientists and  
engineers in  
standards  
laboratories.

What is temperature,  
and how can we  
measure it correctly?  
These may seem like  
simple questions, but  
the most renowned  
scientists struggled  
with them throughout  
the 18th and 19th

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centuries. In *Inventing Temperature*, Chang examines how scientists first created thermometers; how they measured temperature beyond the reach of standard thermometers; and how they managed to assess the reliability and accuracy of these instruments without a circular reliance on

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the instruments themselves. In a discussion that brings together the history of science with the philosophy of science, Chang presents the simple yet challenging epistemic and technical questions about these instruments, and the complex web of abstract philosophical

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issues surrounding them. Chang's book shows that many items of knowledge that we take for granted now are in fact spectacular achievements, obtained only after a great deal of innovative thinking, painstaking experiments, bold conjectures, and

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controversy. Lurking behind these achievements are some very important philosophical questions about how and when people accept the authority of science.

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College Physics, 9th



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Naphthalene