

TEMPERATURE

ITS MEASUREMENT AND CONTROL IN SCIENCE AND INDUSTRY

VOLUME SIX

James F. Schooley
Editor-in-Chief

PART ONE

Keynote Address

Thermodynamic Temperature Determinations

Temperature Scales

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Radiometric Temperature Measurements, 2009-10-01 This book describes the theory of radiation thermometry both at a primary level and for a variety of applications such as in the materials processing industries and remote sensing This book is written for those who will apply radiation thermometry in industrial practice use radiation thermometers for scientific research the radiation thermometry specialist in a national measurement institute developers of radiation thermometers who are working to innovate products for instrument manufacturers and developers of non contact thermometry methods to address challenging thermometry problems The authors of each chapter were chosen from a group of international scientists who are experts in the field and specialists on the subject matter covered in the chapter A large number of references are included at the end of each chapter as a resource for those seeking a deeper or more detailed understanding This book is more than a practice guide readers will gain in depth knowledge in 1 the proper selection of the type of thermometer 2 the best practice in using the radiation thermometers 3 awareness of the error sources and subsequent appropriate procedure to reduce the overall uncertainty and 4 understanding of the calibration chain and its current limitations Covers all fundamental aspects of the radiometric measurements Discusses practical applications with details on the instrumentation calibration and error sources Authors are from leading national labs working in R D of temperature measurements **Temperature Measurement and Control** J.R. Leigh, 1988-06-30 This book treats the theory and practice of temperature measurement and control and important related topics such as energy management and air pollution **HANDBOOK OF TEMPERATURE MEASUREMENT**. Robin E. Bentley, 1998 Volume 1 of the Handbook of Temperature Measurement prepared by the CSIRO National Measurement Laboratory Australia details the principles and techniques involved in the measurement of humidity in cryogenic and radiation thermometry and a variety of unconventional methods of temperature measurement Other topics considered are thermal conductivity and the traceability of measurement Authors in this volume include Mark J Ballico Edwin C Morris Gary Rosengarten Anna Schneider Glenda Sandars Laurie M Besley Jeffrey Tapping and Anthony J Farmer Principles and Methods of Temperature Measurement Thomas D. McGee, 1988-05-19 The concept of temperature The thermodynamic temperature scale Entropy temperature and statistical mechanics The international practical temperature scale General characteristics of temperature measuring devices and treatment of data Liquid in glass thermometers Sealed liquid or gas sensing instruments and bimetallic sensors Electrical resistance temperature measurement using metallic sensors Thermistors and semiconductors for temperature measurement Thermoelectric temperature measurement Theory of radiant heat transfer as a basis for temperature measurement by radiant techniques The disappearing filament optical pyrometer Photoelectric optical pyrometers automatic and infrared Total radiation pyrometers Novel methods of temperature measurement Pyrometric cones Calibration methods Installation effects Dynamic

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