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Thermal Sensors, High-Accuracy CMOS Smart Temperature Sensors Precision Temperature Sensors in CMOS Technology High-accuracy CMOS Smart Temperature Sensors Semiconducting Temperature Sensors and Their Applications Precision Temperature Sensors in CMOS Technology Harris Pennsylvania Industrial Directory Official Gazette of the United States Patent and Trademark Office Index of Patents Issued from the United States Patent Office Index of Patents Issued from the United States Patent and Trademark Office Electromagnetic Fields and Biomembranes Cumulated Index Medicus Transactions Science Citation Index Pandex Current Index to Scientific and Technical Literature Kompass, Nederland

Thermal Sensors,

1994-10-27

thermal sensors is intended as a comprehensive and accessible reference for designers and users of thermal sensors many different physical quantities can be converted easily and accurately into temperature differences using thermal techniques these temperature differences can be detected with temperature and temperature difference sensors in a thermal sensor the thermal converter and the temperature sensor are combined in a single accurate device this book gives an overview and deals with the design aspects of thermal and temperature sensors with an emphasis on sensors based on silicon technology the temperature sensors described are based on the use of various types of sensitive elements such as platinum resistors thermistors and special integrated circuits the thermal sensors described include flow conductivity infrared vacuum humidity and calorimetric sensors and ac dc converters thus providing a comprehensive overview of all thermal sensors with practical examples of each type

High-Accuracy CMOS Smart Temperature Sensors

2013-03-09

this book describes the theory and design of high accuracy cmos smart temperature sensors the major topic of the work is the realization of a smart temperature sensor that has an accuracy that is so high that it can be applied without any form of calibration integrated in a low cost cmos technology this yields at the publication date of this book one of the most inexpensive intelligent general purpose temperature sensors in the world the first thermometers could only be read by the human eye the industrial revolution and the following computerization asked for more intelligent sensors which could easily communicate to digital computers this led to the development of integrated temperature sensors that combine a bipolar temperature sensor and an a to d converter on the same chip the implementation in cmos technology reduces the processing costs to a minimum while having the best suited technology to increase the digital intelligence the accuracy of conventional cmos smart temperature sensors is degraded by the offset of the read out electronics calibration of these errors is quite expensive however dynamic offset cancellation techniques can reduce the offset of amplifiers by a factor 100 to 1000 and do not need trimming chapter two gives an elaborate description of the different kinds of dynamic offset cancellation techniques also a new technique is introduced called the nested chopper technique an implementation of a cmos nested chopper instrumentation amplifier shows a residual offset of less than loon v which is the best result reported to date

Precision Temperature Sensors in CMOS Technology

2006-12-06

this book describes the analysis and design of precision temperature sensors in cmos ic technology focusing on so called smart temperature sensors which provide a digital output signal that can be readily interpreted by a computer the text shows how temperature characteristics can be used to obtain an accurate digital temperature reading the book ends with a detailed description of three prototypes one of which achieves the best performance reported to date

High-accuracy CMOS Smart Temperature Sensors

2000

the first international school on electromagnetic fields and biomembranes took place in pleven bulgaria on 6 12 october 1986 it was designed as an advanced course through a collaboration of the biological faculty of sofia university and the council of the bioelectrochemical society in an advanced course the lecturers are specialized in particular areas and the students are usually specialists in related areas we have captured the expertise of both groups of participants in this volume the longer papers prepared by the lecturers are joined with the shorter papers based on the posters presented by the students to provide a summary of the school as well as an indication of current research directions in the field the course was designed to provide the latest information about biomembrane structure and function covering the properties of both the lipid matrix and the recently characterized proteins that function as specialized channels and receptors real membranes and various models were covered with an emphasis on understanding their mechanisms of interaction with various exogenous stimuli e g electric magnetic light etc several practical applications of this information e g electroporation electro fusion were also presented with indications of the possibilities for new developments in biotechnology the mixture of basic science with practical applications together with the int rmingling of lecturers and students from many different countries produced a stimulating atmosphere and effective teaching we hope that this volume will transmit some of this atmosphere

Semiconducting Temperature Sensors and Their Applications

1975

vols for 1932 include a separately paged section of abstracts 1948 mar 1954 called engineering abstracts section 3 shipbuilding and marine engineering v 11 17 no 3 apr 1954 called marine engineering and shipbuilding abstracts v 17 no 4

Precision Temperature Sensors in CMOS Technology

2005

vols for 1964 have guides and journal lists

Harris Pennsylvania Industrial Directory

2011

Official Gazette of the United States Patent and Trademark Office

1982

Index of Patents Issued from the United States Patent Office

1984

Index of Patents Issued from the United States Patent and Trademark Office

1984

Electromagnetic Fields and Biomembranes

2012-12-06

Cumulated Index Medicus

1972

Transactions

1968

Science Citation Index

1993

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1969

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1998

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