



Temperature Transducer

By Son Thanh, Phung

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | An ISFET pH meter is composed of an ISFET sensor[1], an ISFET readout circuit, a temperature sensor, a temperature readout circuit, a microcontroller with a built in ADC and a LCD for displaying results. The ISFET sensor and temperature sensor measure the pH and the temperature of the solution respectively. The temperature sensor and temperature readout circuit serve as an integral part of microcontroller-based ISFET pH meter system. Both provide temperature monitoring for the automatic compensation of temperature effects on pH meter readings. This study presents a temperature sensor with a readout circuit using CMOS technology. The temperature sensor consists of two elements, a PTAT generator[2], and an operational amplifier server as buffer[3]. It was implemented in an integrated circuit based on TSMC 0.35 μ m 2P4M CMOS technology that operates on a single rail 3.3V power supply. Its core area is 357.3 μ m by 135.05 μ m and has an average power dissipation of 495.4614 μ W in typical case. The temperature sensor operates with a resolution of 5mV/oC. Post-layout simulation showed a linear output voltage from 0oC to 100oC. | Format: Paperback | Language/Sprache: english | 104 pp.



[DOWNLOAD PDF](#)



[READ ONLINE](#)

[4.26 MB]

Reviews

A fresh electronic book with a new viewpoint. I was able to comprehend every thing using this written e pdf. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Isom Nader I**

A top quality publication as well as the font utilized was fascinating to read. It is among the most incredible pdf i actually have read through. I am easily could get a pleasure of looking at a created publication.

-- **Scot Howe**

Relevant Kindle Books



Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.



Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.



Growing Up: From Baby to Adult High Beginning Book with Online Access

Cambridge University Press, 2014. UNK. Book Condition: New. New Book. Shipped from US within 10 to 14 business days. Established seller since 2000.



The Complete Idiots Guide Complete Idiots Guide to Baby Sign Language by Diane Ryan 2006 Paperback

Book Condition: Brand New. Book Condition: Brand New.



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



Cello Concerto, Op. 104 / B. 191: Study Score

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****. Dvorak had long refused the repeated requests for a cello concerto from his friend, the renowned cellist Hanus...