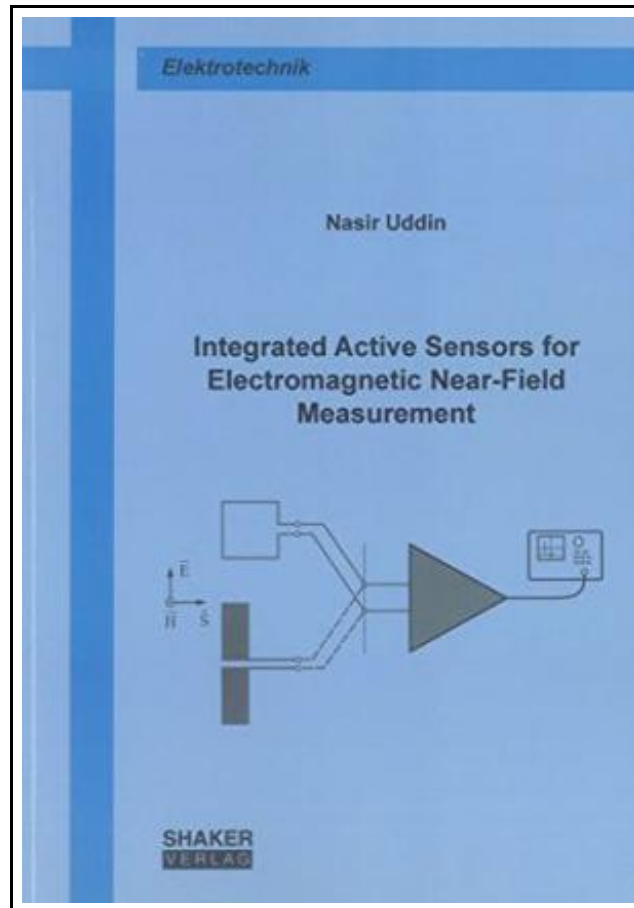


# Integrated Active Sensors for Electromagnetic Near-Field Measurement



Filesize: 8.62 MB

## Reviews

*These types of book is the greatest ebook readily available. I was able to comprehend every little thing using this published e pdf. I realized this pdf from my dad and i encouraged this publication to discover.*

**(Dr. Porter Mitchell)**

## INTEGRATED ACTIVE SENSORS FOR ELECTROMAGNETIC NEAR-FIELD MEASUREMENT



To download **Integrated Active Sensors for Electromagnetic Near-Field Measurement** eBook, remember to follow the web link below and download the file or gain access to other information which are have conjunction with INTEGRATED ACTIVE SENSORS FOR ELECTROMAGNETIC NEAR-FIELD MEASUREMENT ebook.

Shaker Verlag Apr 2012, 2012. Buch. Book Condition: Neu. 211x149x10 mm. Neuware - Near-field scanning, performed in close proximity to the tested object, is gathering increasing interest as an effective technique for estimation of radiating fields, spatial and frequency localizations of radiating sources, electromagnetic compatibility (EMC) compliant verification of complex electronic devices, and development and verification of circuit models for a dedicated model-based development process. Miniature field sensors, exhibiting high spatial resolution, are of interest due to fine geometries of conducting networks used in modern integrated circuits (ICs). Unfortunately, decreasing the sensor size leads to reduced sensitivity and thus, measurement of electromagnetic field distributions with high spatial resolution becomes a challenging task. One approach to obtain highly resolved field data with increased sensitivity is the use of integrated active sensor including not only the sensing part of the probe but also active circuitry such as preamplifier. This dissertation presents the design, implementation, and characterization of miniature passive sensors, differential amplifiers, and integrated active near-field sensors in GaAs pHEMT technology. The circuit topologies for the amplifiers and the sensor integration techniques are described and the performance of the amplifiers is demonstrated in the frequency range from 100 MHz to 10 GHz. The operability of the designed sensors is demonstrated with the proposed measurement techniques. Switchable double-input integrated active sensors and mixed-mode amplifiers with both differential- and common-mode gain are implemented and characterized. An integrated active loop sensor is also designed in SiGe HBT technology and characterized. The comparable performance of the active loop sensor in this technology opens the prospect to integrated active sensors with post processing circuits on chip. 130 pp. Englisch.



**[Read Integrated Active Sensors for Electromagnetic Near-Field Measurement Online](#)**



**[Download PDF Integrated Active Sensors for Electromagnetic Near-Field](#)**

**[Measurement](#)**



**[Download ePub Integrated Active Sensors for Electromagnetic Near-Field](#)**

**[Measurement](#)**

## Other Books



---

### [PDF] Programming in D

Follow the hyperlink beneath to get "Programming in D" file.

[Read Document »](#)



---

### [PDF] The new era Chihpen woman required reading books: Chihpen woman Liu Jieli financial surgery(Chinese Edition)

Follow the hyperlink beneath to get "The new era Chihpen woman required reading books: Chihpen woman Liu Jieli financial surgery(Chinese Edition)" file.

[Read Document »](#)



---

### [PDF] Psychologisches Testverfahren

Follow the hyperlink beneath to get "Psychologisches Testverfahren" file.

[Read Document »](#)



---

### [PDF] It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em

Follow the hyperlink beneath to get "It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em" file.

[Read Document »](#)



---

### [PDF] King Midas (Illustrated edition)

Follow the hyperlink beneath to get "King Midas (Illustrated edition)" file.

[Read Document »](#)



---

### [PDF] Sweet and Simple Knitting Projects: Teach Yourself: 2010

Follow the hyperlink beneath to get "Sweet and Simple Knitting Projects: Teach Yourself: 2010" file.

[Read Document »](#)

**[PDF] Peppa Pig: Nature Trail - Read it Yourself with Ladybird: Level 2**

Click the web link under to get "Peppa Pig: Nature Trail - Read it Yourself with Ladybird: Level 2" PDF document.

[Save ePub »](#)

**[PDF] The Monster Next Door - Read it Yourself with Ladybird: Level 2**

Click the web link under to get "The Monster Next Door - Read it Yourself with Ladybird: Level 2" PDF document.

[Save ePub »](#)

**[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: The Sing Song (Hardback)**

Click the web link under to get "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: The Sing Song (Hardback)" PDF document.

[Save ePub »](#)

**[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Egg Fried Rice (Hardback)**

Click the web link under to get "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Egg Fried Rice (Hardback)" PDF document.

[Save ePub »](#)

**[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: Shops (Hardback)**

Click the web link under to get "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: Shops (Hardback)" PDF document.

[Save ePub »](#)

**[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 4: Wet Feet (Hardback)**

Click the web link under to get "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 4: Wet Feet (Hardback)" PDF document.

[Save ePub »](#)