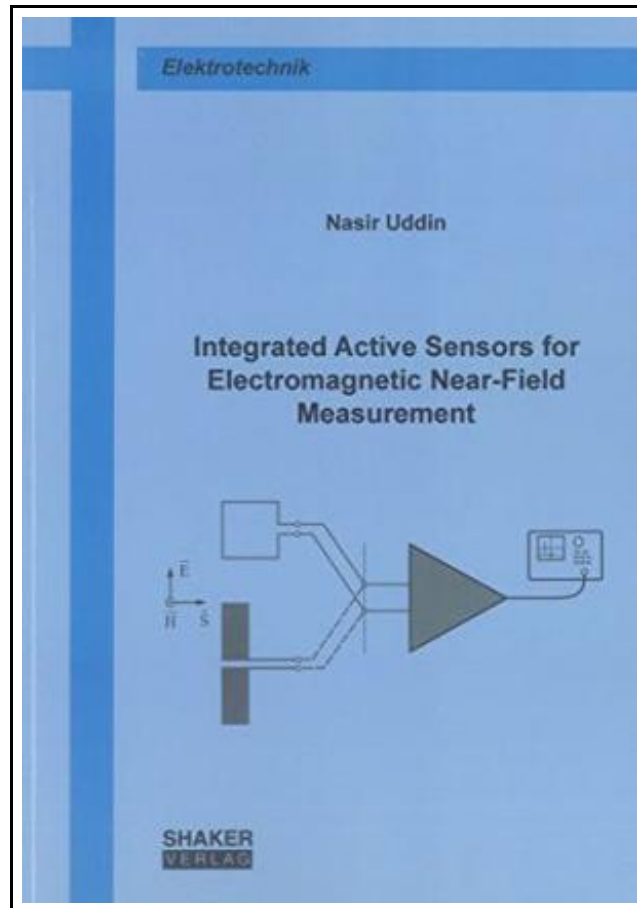


Integrated Active Sensors for Electromagnetic Near-Field Measurement



Filesize: 6.84 MB

Reviews

An exceptional pdf along with the typeface applied was intriguing to read. It can be rally intriguing through studying time period. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Prof. Uriel Watsica III)

INTEGRATED ACTIVE SENSORS FOR ELECTROMAGNETIC NEAR-FIELD MEASUREMENT



To read **Integrated Active Sensors for Electromagnetic Near-Field Measurement** eBook, make sure you follow the link beneath and save the file or gain access to other information that are related to 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](#)

Related PDFs



[PDF] Programming in D

Click the web link beneath to download and read "Programming in D" document.

[Save ePub »](#)



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

Click the web link beneath to download and read "The new era Chihpen woman required reading books: Chihpen woman Liu Jieli financial surgery(Chinese Edition)" document.

[Save ePub »](#)



[PDF] Psychologisches Testverfahren

Click the web link beneath to download and read "Psychologisches Testverfahren" document.

[Save ePub »](#)



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

Click the web link beneath to download and read "It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em" document.

[Save ePub »](#)



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

Click the web link beneath to download and read "Sweet and Simple Knitting Projects: Teach Yourself: 2010" document.

[Save ePub »](#)



[PDF] The Java Tutorial (3rd Edition)

Click the web link beneath to download and read "The Java Tutorial (3rd Edition)" document.

[Save ePub »](#)



[PDF] Fart Book African Bean Fart Adventures in the Jungle: Short Stories with Moral

Follow the web link below to read "Fart Book African Bean Fart Adventures in the Jungle: Short Stories with Moral" document.

[Download ePub »](#)



[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Craig Saves the Day (Hardback)

Follow the web link below to read "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Craig Saves the Day (Hardback)" document.

[Download ePub »](#)



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

Follow the web link below to read "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 4: Wet Feet (Hardback)" document.

[Download ePub »](#)



[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: The Fizz-buzz (Hardback)

Follow the web link below to read "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: The Fizz-buzz (Hardback)" document.

[Download ePub »](#)



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

Follow the web link below to read "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Seasick (Hardback)" document.

[Download ePub »](#)



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

Follow the web link below to read "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: The Backpack (Hardback)" document.

[Download ePub »](#)