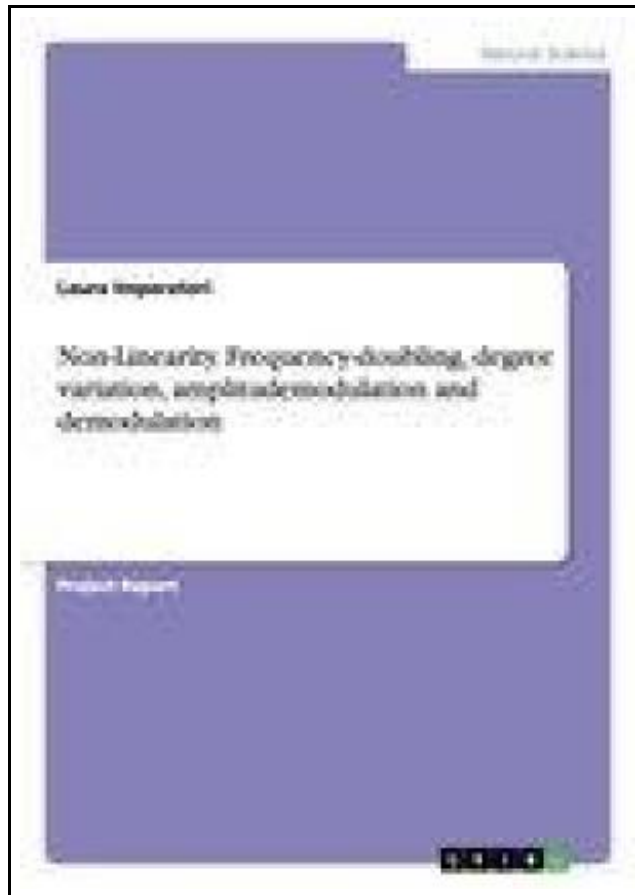


Non-Linearity. Frequency-doubling, degree variation, amplitudemodulation and demodulation



Filesize: 4.38 MB

Reviews

It in one of my favorite publication. Indeed, it can be play, nonetheless an interesting and amazing literature. I discovered this publication from my i and dad suggested this publication to understand.
(Camryn Williamson)

NON-LINEARITY. FREQUENCY-DOUBLING, DEGREE VARIATION, AMPLITUDEMODULATION AND DEMODULATION



GRIN Verlag Jun 2014, 2014. sonst. Bücher. Book Condition: Neu. 210x148x1 mm. This item is printed on demand - Print on Demand Neuware - Project Report from the year 2013 in the subject Physics - Acoustics, grade: Alpha, University of Cambridge (Department of Physics), course: Natural Sciences Tripos Part IB, language: English, abstract: In order to test non-linearity, the effects of different transfer functions of an AD633 multiplier in a given electrical circuit were investigated and compared with the theoretical expectations. First of all, the phenomenon of frequency doubling was found to occur when squaring the input voltage. Secondly, the multiplier was reconfigured to give a square-root response. This allowed us to vary the degree of non-linearity by choosing the parameters of input voltage and DC offset such that we could determine which terms in the Taylor expansion of the transfer function were relevant and hence to what degree the circuit behaved non-linearly. For a small, sinusoidal variation about a large DC level, the system was found to be weakly non-linear. For high amplitude and a low DV offset we observed strong non-linearity. Compared to weak non-linearity, we were able to detect the third harmonic as well as the first and the second one. The existence of harmonics was investigated on the PicoScope screen and verified by plotting output amplitude (dBV) versus input amplitude (dBV) and finding the gradient of the slope corresponding to the respective harmonic. Finally, frequency mixing was explored in its broader context by investigating amplitude modulation and demodulation on the same circuit board. 16 pp. Englisch.



[Read Non-Linearity. Frequency-doubling, degree variation, amplitudemodulation and demodulation Online](#)



[Download PDF Non-Linearity. Frequency-doubling, degree variation, amplitudemodulation and demodulation](#)

You May Also Like



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

[Save ePub »](#)



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

[Save ePub »](#)



Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 52 pages. Dimensions: 9.0in. x 6.0in. x 0.1in.Still finding it getting your way around your Kindle Fire Wish you had...

[Save ePub »](#)



Studyguide for Introduction to Early Childhood Education: Preschool Through Primary Grades by Jo Ann Brewer ISBN: 9780205491452

2011. Softcover. Book Condition: New. 6th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights,...

[Save ePub »](#)



31 Moralistic Motivational Bedtime Short Stories for Kids: 1 Story Daily on Bedtime for 30 Days Which Are Full of Morals, Motivations Inspirations

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Reading to children is a wonderful activity and past time that both parents...

[Save ePub »](#)

**Yearbook Volume 15**

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 58 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This historic book may have numerous typos and missing text. Purchasers can usually download a free

[Download Document »](#)

**Read Write Inc. Phonics: Purple Set 2 Non-Fiction 1 Hens**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 200 x 172 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

[Download Document »](#)

**Fifth-grade essay How to Write**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 272 Publisher: one hundred Press Pub. Date :2008-10-1. Contents: The first semester

[Download Document »](#)

**Read Write Inc. Phonics: Yellow Set 5 Non-Fiction 3 Fun at the Fair**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 207 x 170 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

[Download Document »](#)

**Cool Cars: Set 12: Non-Fiction**

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Cool Cars: Set 12: Non-Fiction, Emma Lynch, This title is part of Phonics Bug - the first Phonics programme to bring together research-based teaching methods with

[Download Document »](#)