



DSP Integrated Circuits (Academic Press Series in Engineering)

Lars Wanhammar

Download now

[Click here](#) if your download doesn't start automatically

DSP Integrated Circuits (Academic Press Series in Engineering)

Lars Wanhammar

DSP Integrated Circuits (Academic Press Series in Engineering) Lars Wanhammar

DSP Integrated Circuits establishes the essential interface between theory of digital signal processing algorithms and their implementation in full-custom CMOS technology. With an emphasis on techniques for co-design of DSP algorithms and hardware in order to achieve high performance in terms of throughput, low power consumption, and design effort, this book provides the professional engineer, researcher, and student with a firm foundation in the theoretical as well as the practical aspects of designing high performance DSP integrated circuits.

Centered around three design case studies, DSP Integrated Circuits thoroughly details a high-performance FFT processor, a 2-D Discrete Cosine Transform for HDTV, and a wave digital filter for interpolation of the sampling frequency. The case studies cover the essential parts of the design process in a top-down manner, from specification of algorithm design and optimization, scheduling of operations, synthesis of optimal architectures, realization of processing elements, to the floor-planning of the integrated circuit.

- Details the theory and design of digital filters - particularly wave digital filters, multi-rate digital filters, fast Fourier transforms (FFT's), and discrete cosine transforms (DCT's)
- Follows three complete "real-world" case studies throughout the book
- Provides complete coverage of finite word length effects in DSP algorithms
- In-depth survey of the computational properties of DSP algorithms and their mapping to optimal architectures
- Outlines DSP architectures and parallel, bit-serial, and distributed arithmetic
- Presents the design process in a top-down manner and incorporates numerous problems and solutions



[Download DSP Integrated Circuits \(Academic Press Series in Engin ...pdf](#)



[Read Online DSP Integrated Circuits \(Academic Press Series in Eng ...pdf](#)

**Download and Read Free Online DSP Integrated Circuits (Academic Press Series in Engineering)
Lars Wanhammar**

**Download and Read Free Online DSP Integrated Circuits (Academic Press Series in Engineering)
Lars Wanhammar**

From reader reviews:

Sonia Cramer:

Nowadays reading books be a little more than want or need but also get a life style. This reading behavior give you lot of advantages. Advantages you got of course the knowledge even the information inside the book this improve your knowledge and information. The details you get based on what kind of book you read, if you want have more knowledge just go with education and learning books but if you want sense happy read one having theme for entertaining for example comic or novel. Typically the DSP Integrated Circuits (Academic Press Series in Engineering) is kind of reserve which is giving the reader unpredictable experience.

Penny Laughlin:

The book with title DSP Integrated Circuits (Academic Press Series in Engineering) includes a lot of information that you can learn it. You can get a lot of benefit after read this book. This specific book exist new know-how the information that exist in this publication represented the condition of the world at this point. That is important to you to find out how the improvement of the world. This specific book will bring you in new era of the global growth. You can read the e-book with your smart phone, so you can read this anywhere you want.

Audrey Patton:

Don't be worry when you are afraid that this book will probably filled the space in your house, you can have it in e-book method, more simple and reachable. This particular DSP Integrated Circuits (Academic Press Series in Engineering) can give you a lot of close friends because by you investigating this one book you have point that they don't and make a person more like an interesting person. This specific book can be one of a step for you to get success. This book offer you information that probably your friend doesn't understand, by knowing more than other make you to be great people. So , why hesitate? Let's have DSP Integrated Circuits (Academic Press Series in Engineering).

Wayne Joseph:

That e-book can make you to feel relax. This kind of book DSP Integrated Circuits (Academic Press Series in Engineering) was colorful and of course has pictures around. As we know that book DSP Integrated Circuits (Academic Press Series in Engineering) has many kinds or genre. Start from kids until young adults. For example Naruto or Investigation company Conan you can read and feel that you are the character on there. Therefore , not at all of book usually are make you bored, any it offers you feel happy, fun and rest. Try to choose the best book in your case and try to like reading which.

Download and Read Online DSP Integrated Circuits (Academic Press Series in Engineering) Lars Wanhammar #Y9R1ELJP7ZX

Read DSP Integrated Circuits (Academic Press Series in Engineering) by Lars Wanhammar for online ebook

DSP Integrated Circuits (Academic Press Series in Engineering) by Lars Wanhammar Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read DSP Integrated Circuits (Academic Press Series in Engineering) by Lars Wanhammar books to read online.

Online DSP Integrated Circuits (Academic Press Series in Engineering) by Lars Wanhammar ebook PDF download

DSP Integrated Circuits (Academic Press Series in Engineering) by Lars Wanhammar Doc

DSP Integrated Circuits (Academic Press Series in Engineering) by Lars Wanhammar Mobipocket

DSP Integrated Circuits (Academic Press Series in Engineering) by Lars Wanhammar EPub