

Energy-Efficient Communication Processors: Design and Implementation for Emerging Wireless Systems

By Robert Fasthuber, Francky Catthoor, Praveen Raghavan, Frederik Naessens

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This book describes a new design approach for energy-efficient, Domain-Specific Instruction set Processor (DSIP) architectures for the wireless baseband domain. The innovative techniques presented enable co-design of algorithms, architectures and technology, for efficient implementation of the most advanced technologies. To demonstrate the feasibility of the author’s design approach, case studies are included for crucial functionality of advanced wireless systems with increased computational performance, flexibility and reusability. Designers using this approach will benefit from reduced development/product costs and greater scalability to future process technology nodes.

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Editorial Review

From the Back Cover

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- Describes a DSIP architecture explicitly for the wireless domain, significantly more efficient than methods commonly in use;
- Includes an efficient DSIP architecture template, which can be reused for specific designs;
- Uses holistic design approach, considering all relevant requirements and combining many innovative/disruptive design concepts;
- Enables design portability, given changing target devices.

Users Review

From reader reviews:

Lauren Joseph:

The book Energy-Efficient Communication Processors: Design and Implementation for Emerging Wireless Systems has a lot of knowledge on it. So when you check out this book you can get a lot of benefit. The book was published by the very famous author. Mcdougal makes some research previous to write this book. This particular book very easy to read you can get the point easily after perusing this book.

Bonnie Skelton:

Playing with family in the park, coming to see the water world or hanging out with friends is thing that usually you may have done when you have spare time, after that why you don't try issue that really opposite from that. 1 activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition of information. Even you love Energy-Efficient Communication Processors: Design and Implementation for Emerging Wireless Systems, you are able to enjoy both. It is very good combination right, you still would like to miss it? What kind of hang-out type is it? Oh occur its mind hangout guys. What? Still don't have it, oh come on its named reading friends.

Annamarie Hernandez:

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