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profitability Synthesizing  
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processing: experience-  
based principles,  
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Although programming in memory-restricted environments is never easy, this holds especially true for digital signal processing (DSP). The data-rich, computation-intensive nature of DSP makes memory management a chief and challenging concern for designers. Memory Management for

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Synthesis of DSP  
Software focuses on minimizing memory requirements during the synthesis of DSP software from dataflow representations. Dataflow representations are used in many popular DSP design tools, and the methods of this book can be applied in that context, as well as other contexts where dataflow

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is used. This book systematically reviews research conducted by the authors on memory minimization techniques for compiling synchronous dataflow (SDF) specifications. Beginning with an overview of the foundations of software synthesis techniques from SDF descriptions, it examines aggressive

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buffer-sharing techniques that take advantage of specific and quantifiable tradeoffs between code size and buffer size to achieve high levels of buffer memory optimization. The authors outline coarse-level strategies using lifetime analysis and dynamic storage allocation (DSA) for efficient buffer sharing as

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one approach and demonstrate the role of the CBP (consumed-before-produced) parameter at a finer level using a merging framework for buffer sharing. They present two powerful algorithms for combining these sharing techniques and then introduce techniques that are not restricted to the single

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appearance scheduling  
space of the other  
techniques. Extensively  
illustrated to clarify the  
mathematical concepts,  
Memory Management  
for Synthesis of DSP  
Software presents a  
comprehensive survey of  
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This book presents state-of-the-art coverage of synthesis of advanced functional materials.

Unconventional synthetic routes play an important role in the

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synthesis of advanced materials as many new materials are metastable and cannot be synthesized by conventional methods.

This book presents various synthesis methods such as conventional solid-state method, combustion method, a range of soft chemical methods, template synthesis,

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method, microwave  
synthesis, sono-chemical  
method and high-  
pressure synthesis. It  
provides a  
comprehensive overview  
of synthesis methods and  
covers a variety of  
materials, including  
ceramics, films, glass,  
carbon-based, and  
metallic materials. Many  
techniques for processing

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and surface functionalization are also discussed. Several engineering aspects of materials synthesis are also included. The contents of this book are useful for researchers and professionals working in the areas of materials and chemistry.

"Process design is the focal point of chemical

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engineering practice: the creative activity through which engineers continuously improve facility operations to create products that enhance life. Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills, so they can analyze both the big picture and minute

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details - and know when to focus on each.

Through three previous editions, this book has established itself as the leading resource for students seeking to apply what they've learned in real-world, open-ended process problems. The authors help students hone and synthesize their design skills through expert coverage of

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preliminary equipment sizing, flowsheet optimization, economic evaluation, operation and control, simulation, and other key topics.

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