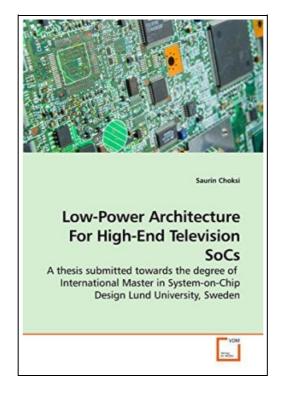
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LOW-POWER ARCHITECTURE FOR HIGH-END TELEVISION SOCS



Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | A thesis submitted towards the degree of International Master in System-on-Chip Design Lund University, Sweden | This book focuses on the exploration of various power optimization methods for video processing SoCs. An existing application, a video pixel processor for high-end television sets, is used as a case study. Furthermore, the influence of a recently developed communication infrastructure, Network-on-Chip (NoC), on power dissipation is analyzed. An extensive power analysis is performed on the Network Interface (NI), a key part of the NoC. The results have been applied to the recent design of a NoC-based video pixel processor and an alternative implementation is proposed that promises to reduce the power dissipation by about 50%. | Format: Paperback | Language/Sprache: english | 92 pp.



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