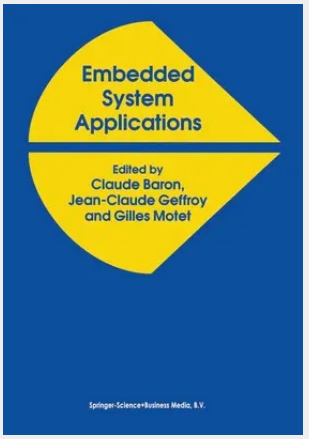
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Embedded System Applications



Embedded systems encompass a variety of hardware and software components which perform specific functions in host systems, for example, satellites, washing machines, hand-held telephones and automobiles. Embedded systems have become increasingly digital with a non-digital periphery (analog power) and therefore, both hardware and software codesign are relevant. The vast majority of computers manufactured are used in such systems. They are called `embedded' to distinguish them from standard mainframes, workstations, and PCs. Athough the design of embedded systems has been used in industrial practice for decades, the systematic design of such systems has only recently gained increased attention. Advances in microelectronics have made possible applications that would have been impossible without an embedded system design. describes the latest techniques for embedded system design in a variety of applications. This also includes some of the latest software tools for embedded system design. Applications of embedded system design in avionics, satellites, radio astronomy, space and control systems are illustrated in separate chapters. Finally, the book contains chapters related to industrial best-practice in embedded system design.
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