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Embedded can mean many different things (see a later chapter for a list of meanings), but a common characteristic is that the system's complexity—including all its configuration and control components and activities—are not made visible to the user of the systems, but remain hidden behind a user friendly interface that gives only access to the (virtual) model of the embedded system. This example of an embedded system is used to introduce the most generic concepts of an embedded system ...

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A set of original results in the field of high-level design of logical control devices and systems is presented in this book. These concern different aspects of such important and long-term design problems, including the following, which seem to be the main ones.

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The embedded control systems are digital systems and their performance is affected by sampling and quantization errors. That is why, we present some basic elements of fixed-point and floating-point computations and describe the rounding errors associated with these computations. In case of fixed-point arithmetic, the emphasis is put on the scaling problem, which is the most important issue in using such arithmetic. We describe briefly the stages of embedded controller design, controller ...

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Design of Embedded Robust Control Systems Using MATLAB®/Simulink®. Petko Hristov Petkov, Tsonyo Nikolaev Slavov, Jordan Konstantinov Kralev. This book explores the implementation of MATLAB (R) and Simulink (R) in the development of embedded robust control systems. Robust control theory allows for changes in a system whilst maintaining stability and performance.

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Using the techniques and reusable code in this work, embedded systems developers can design control systems without the advanced calculus skills that are typically required. It shows how to apply the best software tools for control system design - MATLAB and its tool boxes. Software Frameworks and Embedded Control Systems 2002-01-29

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theory allows for changes in a system whilst maintaining stability and performance. Applications of this technique are very important for dependable embedded systems, making technologies such as drones and other autonomous systems with sophisticated embedded controllers and systems relatively common-place.

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A set of original results in the field of high-level design of logical control devices and systems is presented in this book. These concern different aspects of such important and long-term design problems, including the following, which seem to be the main ones. First, the behavior of a device under design must be described properly, and some adequate formal language should be chosen for that.

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Embedded control systems work on environments with constrained resources (CPU, memory, network, power aware, etc.) that have to be considered in the global development. Embedded control systems involve several cooperating areas of knowledge from the first stages of the design to the implementation.

EMBEDDED CONTROL SYSTEMS: FROM DESIGN TO IMPLEMENTATION ...

As with any kind of component decision, the choice to use an embedded controller over traditional PAC or PLC systems comes down to the design of the device. Embedded controllers are a clear choice for applications that demand high-speed control, custom-made algorithms, and high-level signal processing.

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In order to understand what is involved in the design of embedded control systems, it is useful to elaborate an example of such a system. The chosen example comes from a commonly known application domain, so that all readers can quickly grasp the complexity and the required features of the design.

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