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Autore	Halang Wolfgang A. <1951->
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Introduction; 1.2 Industrial Control Systems; 1.3 Example: A Chemical Process; 1.4 Historical Perspective; Chapter 2 Conceptual Foundations; 2.1 Real-Time System Characteristics; 2.2 Continuous and Discrete Time; 2.3 Engineering Approach to Hard Real-TimeSystem Design; Chapter 3 Digital Control of Continuous Processes; 3.1 Introduction; 3.2 Linear System Theory; 3.3 Control System Analysis and Design; 3.4 Digitising Analogue Signals; 3.5 New Developments
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7.3 Multi-Tasking7.4 Task Synchronisation and Communication; 7.5 Time and Event Handling; 7.6 Distributed Operating Systems; Chapter 8 Comparison of Some Real-Time Operating Systems; 8.1 System iRMX88; 8.2 System iRMX; 8.3 System QNX; 8.4 System PORTOS; 8.5 Comparison of Real-Time Operating Systems; Chapter 9 High Level Real-Time Programming; 9.1 Real-Time Features in High Level Languages; 9.2 A Closer Look at Ada and PEARL; 9.3 Requirements for New High Level LanguageFeatures; 9.4 High-Integrity PEARL; 9.5 Advanced Features of High-Integrity PEARL
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Chapter 15 Programmable Logic Controllers

Sommario/riassunto

This book represents the first comprehensive text in English on real-time and embedded computing systems. It is addressed to engineering students of universities and polytechnics as well as to practitioners and provides the knowledge required for the implementation of industrial computerized process control and manufacturing automation systems. The book avoids mathematical treatment and supports the relevance of the concepts introduced by practical examples and case studies. Special emphasis is placed on a sound conceptual basis and on methodologies and tools for the development of high qualit