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## Computer Based Industrial Control (2nd edition)

By Krishna Kant

PHI Learning. Paperback. Book Condition: new. BRAND NEW, Computer Based Industrial Control (2nd edition), Krishna Kant, Intended primarily for undergraduate and postgraduate students of instrumentation/electronics engineering, the book will also be immensely useful for professionals and researchers in these fields. The book begins with a thorough introduction to automation its history, utility and the current scenario. It then moves on to discuss in detail the techniques, components, subsystems and system architectures relevant to process control. The control techniques covered include classical controls as well as newer controls such as model-based adaptive control, self-tuning control, expert systems and fuzzy logic control. The components consist of sensors and actuators of various types. The subsystems covered are SCADA systems, remote terminal units for telemetry and telecontrol, programmable controllers, distributed digital controllers and personal compute Also included are real-time operating systems and real-time programming languages. The major architectures discussed are distributed digital control, distributed SCADA system and multi-microprocessor architectures. The book thoroughly covers the various technological developments in this field. It also covers, through a number of case studies, the applications of computer-based control in major industries.



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