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Improvements in process control, such as defined-accuracy instrumentation structures and computationally intelligent process modeling, enable advanced capabilities such as molecular manufacturing. High Performance Instrumentation and Automation demonstrates how systematizing the design of instrumentation and automation leads to higher performance through more homogeneous systems, which are frequently assisted by rule-based, fuzzy logic, and neural network process descriptions. Incorporate Advanced Performance Enhancements into Your Automation Enterprise The book illustrates generic common core process-to-control concurrent engineering linkages applied to a variety of laboratory and industry automation systems. It outlines: Product properties translated into realizable process variables Axiomatic decoupling of subprocess variables for improved robustness Production planner model-driven goal state execution In situ sensor and control structures for attenuating process disorder Apparatus tolerance design for minimizing process variabilities Production planner remodeling based on product features measurement for quality advancement Coverage also includes multisensor data fusion, high-performance computer I/O design guided by comprehensive error modeling, multiple sensor algorithmic error propagation, robotic axes volumetric accuracy, quantitative video digitization and reconstruction evaluation, and in situ process measurement methods. High Performance Instrumentation and Automation reflects the experience of engineer and author Patrick Garrett, including his role as co-principal investigator for an Air Force intelligent manufacturing initiative. You can download Analysis Suite.xls,, computer-aided design instrumentation software, available in the book's description on the CRC Press website.

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This book constitutes the refereed proceedings of the 9th International Conference on High-Performance Computing and Networking, HPCN Europe 2001, held in Amsterdam, The Netherlands in June 2001. The 67 revised papers and 15 posters presented were carefully reviewed and selected from a total of almost 200 submissions. Among the areas covered are Web/grid applications of HPCN, end user applications, computational science, computer science, and Java in HPCN.

Supplies the most essential concepts and methods necessary to capitalize on the innovations of industrial automation, including mathematical fundamentals, ergonometics, industrial robotics, government safety regulations, and economic analyses.

This book has information regarding the new developments in clinical instrumentation, focusing on fluorometers and densitometers, explaining the principles, the use of high performance liquid chromatography in clinical laboratories. Automated Microbiology; dabbling into detection, light scanning and analysis of particles. A more recent aspect of automation has been, made possible by the advent of the microprocessor or computer-on-a-chip. The development of miniature, inexpensive micro-computers has resulted in the automation for relatively sophisticated processes. The two aspects of automation are represented in this monograph. The automated control of physical processes, and automation of the information processing. There are elements of both aspects of automation in this book. The areas discussed do emphasize more or less strongly either tight automated control of physical processes or automation of information processing. They all represent the attempt of medical technology to yield more precise, accurate, less expensive and faster to aid in the clinical diagnosis.

The present edited book is the presentation of 18 in-depth national and international contributions from eminent professors, scientists and instrumental chemists from educational institutes, research organizations and industries providing their views on their experience, handling, observation and research outputs on HPTLC, a multi-dimensional instrumentation. The book describes the recent advancements made on TLC which have revolutionized and transformed it into a modern instrumental technique HPTLC. The book addresses different chapters on HPTLC fundamentals: principle, theory, understanding; instrumentation: implementation, optimization, validation, automation and qualitative and quantitative analysis; applications: phytochemical analysis, biomedical analysis, herbal drug quantification, analytical analysis, finger print analysis and potential for hyphenation: HPTLC future to combinatorial approach, HPTLC-MS, HPTLC-FTIR and HPTLC-Scanning Diode Laser. The chapters in the book have been designed in such a way that the reader follows each step of the

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HPTLC in logical order.

Discussing strategies to determine the structure and mechanisms of numerous compound classes, this book covers new chemical and electrophoretic techniques for rapid sample preconcentration and separation. It summarizes breakthroughs in the theory and instrumentation of electrospray mass spectrometry in pharmaceutical and biomedical applications, provides practical examples for the characterization of peptides, proteins, and glycoproteins, includes applications in proteomics, combinatorial chemistry, and drug characterization. Topics include chemical and electrophoretic techniques for rapid sample preconcentration and separation, screening processes for proteins from libraries of compounds, protein folding and dynamics, and more.

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