



Process Control and ITS Automation

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ISBN 13 :	978-93-55382-04-7
ISBN 10 :	93-55382-04-9
E-ISBN 13 :	978-93-55382-04-7
Edition :	1
Pages :	278
Type of book :	Paperback
Weight (g) :	600.00
Year :	2009
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 389.00
Categories :	ISTE Series , Civil Engineering
SKU :	1725633436
Condition Type :	New
Country Origin :	India

Product Description

A sound knowledge of the basic principle underlying any particular branch of engineering is fundamental to its practical application in industry and to its further development. A study of the elements of process dynamics and control now forms an essential part of the education of the chemical and process engineer and is of value also the students in allied fields of fluid process technology. Process control technology has demonstrated great through the years. Today, the study of process control systems or automation in various engineering institutes and universities is confined to the theoretical aspects, which can hardly be applied to the real world problems. While focusing on the fundamentals, this book reflects the current advances in the technology associated with the process control, hence useful to the students or practicing engineers when they are faced with practical problems. The main objective of this book is to impart solid application oriented knowledge of the technology spanning the industrial control field. This technology includes control instrumentation, and some specified systems like programmable logic controllers etc. The treatment of programmable logic controllers has also been expanded to reflect how this technology has increased its application based in modern industry. It also incorporates distributed digital control, which is an important field in all industrial control applications. This book also describes intelligent controllers covering model based controllers, fuzzy controllers and neuro controllers. The book introduced the subject of automation, its historical development, basic functions and current trends.



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The author of this book, Dr. M. Meenakshi is currently working as Professor and Head of the department of Instrumentation Technology, Dr. Ambedkar Institute Technology, Bangalore. She received B.E. degree in instrumentation Technology from S.J.C.E. Mysore, Mysore University, M. Tech degree in Electrical engineering, specialized in controls, guidance and instrumentation from I.I.T Madras and Ph.D form Aerospace Engineering Department, I.I.Sc Bangalore. She has teaching experience of around 21 years and published over 20 national conferences. She has presented several invitee lectures in various seminars and workshops. She has guided large number of students in their project works leading to B.E, M.Tech degrees. She has particulated in formulation of syllabi and curricula of several universities.



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