

Programming Plcs Using Rockwell Automation Controllers

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the book begins with an overview of automation history and followed by chapters on plc dcs
and scada describing how such technologies have become synonymous in process
instrumentation and control the book then introduces the niche of fieldbuses in process
industries it then goes on to discuss wireless communication in the automation sector and its
applications in the industrial arena the book also discusses the all pervading iot and its
industrial cousin iiot which is finding increasing applications in process automation and

control domain the last chapter introduces opc technology which has strongly emerged as a defacto standard for interoperable data exchange between multi vendor software applications and bridges the divide between heterogeneous automation worlds in a very effective way key features presents an overall industrial automation scenario as it evolved over the years discusses the already established plc dcs and scada in a thorough and lucid manner and their recent advancements provides an insight into today s industrial automation field reviews fieldbus communication and wsns in the context of industrial communication explores iiot in process automation and control fields introduces opc which has already carved out a niche among industrial communication technologies with its seamless connectivity in a heterogeneous automation world dr chanchal dey is associate professor in the department of applied physics instrumentation engineering section university of calcutta he is a reviewer of ieee elsevier springer acta press sage and taylor francis publishers he has more than 80 papers in international journals and conference publications his research interests include intelligent process control using conventional fuzzy and neuro fuzzy techniques dr sunit kumar sen is an ex professor department of applied physics instrumentation engineering section university of calcutta he was a coordinator of two projects sponsored by aicte and ugc government of india he has published around 70 papers in international and national journals and conferences and has published three books the last one was published by crc press in 2014 he is a reviewer of measurement elsevier his field of interest is new designs of adcs and dacs

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programming plcs using rockwell automation controllers teaches how to program and integrate plcs it provides a comprehensive coverage of the following topics plc history and the fundamental of programming number systems and coils and contacts rockwell addressing i/o modules and wiring advanced programming wiring and practical application of industrial sensors industrial communications controllogix and devicenet safety and lockout/tagout installing and troubleshooting plc systems iec 1131 programming the logixpro software found on the accompanying cd provides the student with hands on experience in programming and troubleshooting their programs in animated simulations

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