

Introduction To The Controllogix Programmable Automation Controller With Labs

Introduction to the ControlLogix Programmable Automation Controller with Labs Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science

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this book presents current developments in the multidisciplinary creation of internet accessible remote laboratories offering perspectives on teaching with online laboratories pedagogical design system architectures for remote laboratories future trends and policy issues in the use of remote laboratories provided by publisher

this book provides a hands on experience in software and hardware engineering of iot devices in edge and cloud computing systems by putting in practice state of the art concepts of hardware devices networking and computing software it proposes a network of things engineering note lab with seven hands on lab modules covering topics ranging from interfacing sensors and actuators and connecting iot and edge with mqtt to data pipelining in cloud computing all tools and software used in the note lab are free and open source and available to the readers specifically arduino based boards that support a variety of low cost sensors and actuators are used in iot context in edge computing note lab implements off the shelf single board computers raspberry pis with corresponding software and hardware for cloud well known and widely used cloud computing open source tools e g kubernetes are deployed where readers can learn the basics of monitoring and managing containers in cloud computing three communication protocols are used in the end to end setup including mqtt amqp and http this lab book is a must experiment with for anybody in academia and industry participating in the fascinating iot edge cloud continuum development

this book is an open access book this book provides an overview of the erigrd validation methodology for validating cpes a holistic power system testing method it introduces readers to corresponding simulation and laboratory based tools including co simulation real time simulation and hardware in the loop selected test cases and validation examples are provided in order to support the theory discussed the book begins with an introduction to current power system testing methods and an overview of the erigrd system level validation approach it then moves on to discuss various validation methods concepts and tools including simulation and laboratory based assessment methods the book presents test cases and validation examples of the proposed methodologies and summarises the lessons learned from the holistic validation approach in the final section of the book the educational aspects of these methods the outlook for the future and overall conclusions are discussed given its scope the book will be of interest to researchers engineers and laboratory personnel in the fields of power systems and smart grids as well as undergraduate and graduate students studying related engineering topics

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