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this book compiles exceptional papers presented at the 19th annual conference of the china electrotechnical society ces held in xi an china from september 20 to 22 2024 it encompasses a wide range of topics including electrical technology power systems electromagnetic emission technology and electrical equipment the book highlights innovative solutions that integrate concepts from various disciplines making it a valuable resource for researchers engineers practitioners research students and interested readers

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the two volume set lnicst 453 and 454 constitutes the proceedings of the 8th eai international conference on e learning e education and online training eleot 2022 held in harbin china in july 2022

the 111 papers presented in this volume were carefully reviewed and selected from 226 submissions this conference has brought researchers developers and practitioners around the world who are leveraging and developing e educational technologies as well as related learning training and practice methods the theme of eleot 2022 was new trend of information technology and artificial intelligence in education they were organized in topical sections as follows it promoted teaching platforms and systems ai based educational modes and methods automatic educational resource processing educational information evaluation

the atlas of cyberspace is one of the first books to explore the new cartographic and visualization techniques being employed to map the spatial and visual nature of cyberspace and its infrastructure lavish illustrations and clear writing are aimed at the intelligent lay person and should appeal to all users

explore industrial automation and control related concepts like the wiring and programming of vfds and plcs as well as smart factory industry 4 0 with this easy to follow guide get with your book pdf copy ai assistant and next gen reader free key features learn the ins and outs of industrial automation and control by taking a pragmatic approach gain practical insights into automating a manufacturing process using plcs discover how to monitor and control an industrial process using hmis and scada book description industrial automation has become a popular solution for various industries looking to reduce manual labor inputs and costs by automating processes this book helps you discover the abilities necessary for excelling in this field the book starts with the basics of industrial automation before progressing to the application of switches sensors actuators and motors and a direct on line dol starter and its components such as circuit breakers contactors and overload relay next you ll explore vfds their parameter settings and how they can be wired and programmed for induction motor control as you advance you ll learn the wiring and programming of major industrial automation tools plcs hmis and scada you ll also get to grips with process control and measurements temperature pressure level and flow along with analog signal processing with hands on experience in connecting a 4 20 ma transmitter to a plc the concluding chapters will help you grasp various industrial network protocols such as foundation fieldbus modbus profibus profinet and hart as well as emerging trends in manufacturing industry 4 0 and its empowering technologies such as iot ai and robotics by the end of this book you ll have gained a practical understanding of industrial automation concepts for machine automation and control what you will learn get to grips with the essentials of industrial automation and control find out how to use industry based sensors and actuators know about the ac dc servo and stepper motors get a solid understanding of vfds plcs hmis and scada and their applications explore hands on process control systems including analog signal processing with plcs get familiarized with industrial network and communication protocols wired and wireless networks and 5g explore current trends in manufacturing such as smart factory iot ai and robotics who this book is for this book is for both graduates and undergraduates of electrical electronics mechanical mechatronics chemical or computer engineering engineers making a career switch or anyone looking to pursue their career in the field of industrial automation the book covers topics ranging from basic to advanced levels and is a valuable reference for beginner level electrical iiot automation process instrumentation and control production and maintenance engineers working in manufacturing and oil and gas industries among others

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a step by step guide to a full restoration of honda sohc fours from the cb350 4 right through to the groundbreaking cb750 4 this comprehensive manual covers dismantling the motorcycle and its components restoring and sourcing parts paint spraying decals and polishing right through to the rebuild and tips on maintenance

the ability to use computers to solve mathematical relationships is a fundamental skill for anyone planning for a career in science or engineering for this reason numerical analysis is part of the core curriculum for just about every undergraduate physics and engineering department but for most physics and engineering students practical programming is a self taught process this book introduces the reader not only to the mathematical foundation but also to the programming paradigms encountered in modern hybrid software hardware scientific computing after completing the text the reader will be well versed in the use of different numerical techniques programming languages and hardware architectures and will be able to select the appropriate software and hardware tool for their analysis it can serve as a textbook for undergraduate courses on numerical analysis and scientific computing courses within engineering and physical sciences departments it will also be a valuable guidebook for researchers with experimental backgrounds interested in working with numerical simulations or to any new personnel working in scientific computing or data analysis key features includes examples of solving numerical problems in multiple programming languages including matlab python fortran c arduino javascript and verilog provides an introduction to modern high performance computing technologies including multithreading distributed computing gpus microcontrollers fpgas and web cloud computing contains an overview of numerical techniques not found in other introductory texts including particle methods finite volume and finite element methods vlasov solvers and molecular dynamics a video of the author discussing the book can be accessed here

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