

Principles Of Measurement Systems Bentley Solution

Electrical Measurement, Signal Processing, and
DisplaysPrinciples of Measurement and
InstrumentationELECTRONIC INSTRUMENTS AND
INSTRUMENTATION TECHNOLOGYMSP430
Microcontroller BasicsIntroduction to Reliability and
Quality EngineeringDecision Support
SystemsIntroduction to Instrumentation and
MeasurementsMeasurement and
InstrumentationPrinciples of Accounting Volume 2 -
Managerial AccountingBusiness Analytics Principles,
Concepts, and Applications with SASThe Hack
Mechanic Guide to European Automotive Electrical
SystemsEvolutionary Design by ComputersPrinciples
Of Measurement Systems, 3/EElectrical Sensors and
TransducersDisease Control Priorities, Third Edition
(Volume 7)Principles of ManagementEngineering
Metrology and MeasurementsHANDBOOK OF
TEMPERATURE MEASUREMENT.Electronic Test
InstrumentsInstrumentation: Transducers and
InterfacingPrinciples of Measurement
SystemsPrinciples of Measurement
SystemsComputational Number TheoryPrinciples of
Electrical MeasurementThe Measurement and
Monitoring of SafetyAdvanced Principles for Improving
Database Design, Systems Modeling, and Software
DevelopmentAn Introduction to Reliability and Quality
EngineeringMeasurement Sys,5E [Sie]Principles of
Program DesignMetrology & MeasurementHandbook
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SystemsTRANSDUCERS AND

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INSTRUMENTATION Principles of Fluorescence Spectroscopy Physical Principles of Remote Sensing Handbook of Optical Design Value Leadership Principles of Environmental Physics System Engineering Analysis, Design, and Development Principles of Glacier Mechanics

Electrical Measurement, Signal Processing, and Displays

The standard laboratory tools in the modern scientific world include a wide variety of electronic instruments used in measurement and control systems. This book provides a firm foundation in principles, operation, design, and applications of electronic instruments. Commencing with electromechanical instruments, the specialized instruments such as signal analyzers, counters, signal generators, and digital storage oscilloscope are treated in detail. Good design practices such as grounding and shielding are emphasized. The standards in quality management, basics of testing, compatibility, calibration, traceability, metrology and various ISO 9000 quality assurance guidelines are explained as well. The evolution of communication technology in instrumentation is an important subject. A single chapter is devoted to the study of communication methods used in instrumentation technology. There are some areas where instrumentation needs special type of specifications-one such area is hazardous area. The technology and standards used in hazardous areas are also discussed. An

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instrumentation engineer is expected to draw and understand the instrumentation drawings. An Appendix explains the symbols and standards used in P&I diagrams with several examples. Besides worked-out examples included throughout, end-of-chapter questions and multiple choice questions are also given to judge the student's understanding of the subject. Practical and state-of-the-art in approach, this textbook will be useful for students of electrical, electronics, and instrumentation engineering.

Principles of Measurement and Instrumentation

ELECTRONIC INSTRUMENTS AND INSTRUMENTATION TECHNOLOGY

The substantial burden of death and disability that results from interpersonal violence, road traffic injuries, unintentional injuries, occupational health risks, air pollution, climate change, and inadequate water and sanitation falls disproportionately on low- and middle-income countries. Injury Prevention and Environmental Health addresses the risk factors and presents updated data on the burden, as well as economic analyses of platforms and packages for delivering cost-effective and feasible interventions in these settings. The volume's contributors demonstrate that implementation of a range of prevention strategies-presented in an essential package of interventions and policies-could achieve a convergence in death and disability rates that would

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avert more than 7.5 million deaths a year.

MSP430 Microcontroller Basics

Suitable for students of all engineering disciplines and professional engineers alike, this interdisciplinary and user-friendly text will enable the reader to apply the principles of quality and reliability to manufacturing processes and engineering systems.

Introduction to Reliability and Quality Engineering

This well-received and widely adopted text, now in its Second Edition, continues to provide an in-depth analysis of the fundamental principles of Transducers and Instrumentation in a highly accessible style. Professor D.V.S. Murty, who has pioneered the cause of development of Instrumentation Engineering in various engineering institutes and universities across the country, compresses his long and rich experience into this volume. He gives a masterly analysis of the principles and characteristics of transducers, common types of industrial sensors and transducers. Besides, he provides a detailed discussion on such topics as signal processing, data display, transmission and telemetry systems, all the while focusing on the latest developments. The text is profusely illustrated with examples and clear-cut diagrams that enhance its value. NEW TO THIS EDITION : To meet the latest syllabi requirements of various universities, three new chapters have been added: CHAPTER 12: Developments in Sensor Technology CHAPTER 13:

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Sophistication in Instrumentation CHAPTER 14:
Process Control Instrumentation Primarily intended as a text for the students pursuing Instrumentation and Control Engineering, this book would also be extremely useful to professional engineers and those working in R&D organisations.

Decision Support Systems

For MIS specialists and nonspecialists alike, a comprehensive, readable, understandable guide to the concepts and applications of decision support systems.

Introduction to Instrumentation and Measurements

The third edition of this successful textbook will supply advanced undergraduate and graduate students with the tools they need to understand modern glaciological research. Practicing glacial geologists and glaciologists will also find the volume useful as a reference book. Since the second edition, three-quarters of the chapters have been updated, and two new chapters have been added. Included in this edition are noteworthy new contributions to our understanding of important concepts, with over 170 references to papers published since the second edition went to press. The book develops concepts from the bottom up: a working knowledge of calculus is assumed, but beyond that, the important physical concepts are developed from elementary principles. Emphasis is placed on connections between modern

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research in glaciology and the origin of features of glacial landscapes. Student exercises are included.

Measurement and Instrumentation

The CRC Principles and Applications in Engineering series is a library of convenient, economical references sharply focused on particular engineering topics and subspecialties. Each volume in the series comprises chapters carefully selected from CRC's bestselling handbooks, logically organized for optimum convenience, and thoughtfully priced to fit

Principles of Accounting Volume 2 - Managerial Accounting

A less-expensive grayscale paperback version is available. Search for ISBN 9781680922936. Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting. This book is specifically designed to appeal to both accounting and non-accounting majors, exposing students to the core concepts of accounting in familiar ways to build a strong foundation that can be applied across business fields. Each chapter opens with a relatable real-life scenario for today's college student. Thoughtfully designed examples are presented throughout each chapter, allowing students to build on emerging accounting knowledge. Concepts are further reinforced through applicable connections to more detailed business processes. Students are immersed

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in the "why" as well as the "how" aspects of accounting in order to reinforce concepts and promote comprehension over rote memorization.

Business Analytics Principles, Concepts, and Applications with SAS

The Hack Mechanic Guide to European Automotive Electrical Systems

Evolutionary Design by Computers

Principles Of Measurement Systems, 3/E

Electrical Sensors and Transducers

Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

Disease Control Priorities, Third Edition (Volume 7)

Volume 1 of the Handbook of Temperature Measurement, prepared by the CSIRO National

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Measurement Laboratory, Australia, details the principles and techniques involved in the measurement of humidity, in cryogenic and radiation thermometry and a variety of unconventional methods of temperature measurement. Other topics considered are thermal conductivity and the traceability of measurement. Authors in this volume include Mark J. Ballico, Edwin C. Morris, Gary Rosengarten, Anna Schneider, Glenda Sandars, Laurie M. Besley, Jeffrey Tapping, and Anthony J. Farmer.

Principles of Management

The MSP430 microcontroller family offers ultra-low power mixed signal, 16-bit architecture that is perfect for wireless low-power industrial and portable medical applications. This book begins with an overview of embedded systems and microcontrollers followed by a comprehensive in-depth look at the MSP430. The coverage included a tour of the microcontroller's architecture and functionality along with a review of the development environment. Start using the MSP430 armed with a complete understanding of the microcontroller and what you need to get the microcontroller up and running! Details C and assembly language for the MSP430 Companion Web site contains a development kit Full coverage is given to the MSP430 instruction set, and sigma-delta analog-digital converters and timers

Engineering Metrology and Measurements

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"This book presents cutting-edge research and analysis of the most recent advancements in the fields of database systems and software development"--Provided by publisher.

HANDBOOK OF TEMPERATURE MEASUREMENT.

Infused with more than 500 tables and figures, this reference clearly illustrates the intricacies of optical system design and evaluation and considers key aspects of component selection, optimization, and integration for the development of effective optical apparatus. The book provides a much-needed update on the vanguard in the field with vivid e

Electronic Test Instruments

Presented in a unique format, this book covers the basics of transducers in an all- inclusive format.

Instrumentation: Transducers and Interfacing

Measurement and Instrumentation: Theory and Application, Second Edition, introduces undergraduate engineering students to measurement principles and the range of sensors and instruments used for measuring physical variables. This updated edition provides new coverage of the latest developments in measurement technologies, including smart sensors, intelligent instruments, microsensors, digital recorders, displays, and interfaces, also featuring

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chapters on data acquisition and signal processing with LabVIEW from Dr. Reza Langari. Written clearly and comprehensively, this text provides students and recently graduated engineers with the knowledge and tools to design and build measurement systems for virtually any engineering application. Provides early coverage of measurement system design to facilitate a better framework for understanding the importance of studying measurement and instrumentation Covers the latest developments in measurement technologies, including smart sensors, intelligent instruments, microsensors, digital recorders, displays, and interfaces Includes significant material on data acquisition and signal processing with LabVIEW Extensive coverage of measurement uncertainty aids students' ability to determine the accuracy of instruments and measurement systems

Principles of Measurement Systems

"Evolutionary Design By Computers offers an enticing preview of the future of computer-aided design: Design by Darwin." Lawrence J. Fogel, President, Natural Selection, Inc. "Evolutionary design by computers is the major revolution in design thinking of the 20th century and this book is the best introduction available." Professor John Frazer, Swire Chair and Head of School of Design, the Hong Kong Polytechnic University, Author of "An Evolutionary Architecture" "Peter Bentley has assembled and edited an important collection of papers that demonstrate, convincingly, the utility of evolutionary computation for engineering solutions to complex

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problems in design." David B. Fogel, Editor-in-Chief, IEEE Transactions on Evolutionary Computation Some of the most startling achievements in the use of computers to automate design are being accomplished by the use of evolutionary search algorithms to evolve designs. Evolutionary Design By Computers provides a showcase of the best and most original work of the leading international experts in Evolutionary Computation, Engineering Design, Computer Art, and Artificial Life. By bringing together the highest achievers in these fields for the first time, including a foreword by Richard Dawkins, this book provides the definitive coverage of significant developments in Evolutionary Design. This book explores related sub-areas of Evolutionary Design, including: design optimization creative design the creation of art artificial life. It shows for the first time how techniques in each area overlap, and promotes the cross-fertilization of ideas and methods.

Principles of Measurement Systems

Electrical issues in European cars can be intimidating. The Hack Mechanic Guide to European Automotive Electrical Systems shows you how to think about electricity in your car and then take on real-world electrical problems. The principles discussed can be applied to most conventional internal-combustion-engined vehicles, with a focus on European cars spanning the past six decades. Drawing on The Hack Mechanic's wisdom and experience, the 38 chapters cover key electrical topics such as battery, starter, alternator, ignition, circuits, and relays. Through a

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practical and informal approach featuring hundreds of full-color illustrations, author Rob Siegel takes the fear-factor out of projects like making wire repairs, measuring voltage drops, or figuring out if you have a bad fuel pump relay. Essential tools such as multimeters (DVOM), oscillosopes, and scan tools are discussed, with special attention given to the automotive multimeter needed to troubleshoot many modern sensors. You'll get step-by-step troubleshooting procedures ranging from safely jump starting a battery to diagnosing parasitic current drain and vehicle energy diagnosis. And you'll find detailed testing procedures for most problematic electrical components on your European car such as oxygen sensors, crankshaft and camshaft sensors, wheel speed sensors, fuel pumps, solenoids, and actuators. Reading wiring diagrams and decoding the German DIN standard are also covered. Whether you are a DIY mechanic or a professional technician, *The Hack Mechanic Guide to European Automotive Electrical Systems* will increase your confidence in tackling automotive electrical problem-solving. This book applies to gasoline and diesel powered internal combustion engine vehicles. Not intended for hybrid or electric vehicles.

Computational Number Theory

A quantitative yet accessible introduction to remote sensing techniques, this new edition covers a broad spectrum of Earth science applications.

Principles of Electrical Measurement

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Responding to a shortage of effective content for teaching business analytics, this text offers a complete, integrated package of knowledge for newcomers to the subject. The authors present an up-to-date view of what business analytics is, why it is so valuable, and most importantly, how it is used. They combine essential conceptual content with clear explanations of the tools, techniques, and methodologies actually used to implement modern business analytics initiatives. This book offers a proven step-wise approach to designing an analytics program, and successfully integrating it into your organization, so it effectively provides intelligence for competitive advantage in decision making.

The Measurement and Monitoring of Safety

In *Value Leadership*, renowned management and investment expert Peter Cohan — whose 2002 stock picks gained 81 percent when the S&P 500 plunged 24 percent — provides a new and powerful concept of sustainable corporate value. Using his expertise in understanding shareholder value, Cohan offers executives seven management principles that were tested in periods of economic expansion and contraction. These principles are: valuing human relationships, fostering teamwork, experimenting frugally, fulfilling your commitments, fighting complacency, winning through multiple means, and giving to your community. Cohan illustrates these principles by drawing on examples from eight Value Leaders — Synopsys,

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WalMart, Goldman Sachs, MBNA, Johnson & Johnson, J. M. Smucker, Southwest Airlines, and Microsoft. Through two recessions, these companies grew 35 percent faster, were 109 percent more profitable, and generated five times more shareholder wealth than their peers.

Advanced Principles for Improving Database Design, Systems Modeling, and Software Development

The original program design text, this book is about programming for data processing applications, and it presents a coherent method and procedure for designing systems, programs, and components that are transparently simple and self evidently correct. The main emphasis is on the structure--on the dissection of a problem into parts and the arrangement of those parts to form a solution. Exercises and questions for discussion are given at the end of almost every chapter.

An Introduction to Reliability and Quality Engineering

Fig. 2. 39
Seven-segment devices for large displays and good visibility at up to 300 m can readily be obtained. Summary The number of transducer types is almost unlimited, and in order to bring our area of study down to a more manageable size we have considered transducers under four main headings. Input transducers for detecting mechanical change allow us

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to sense force, pressure, position, proximity, displacement, velocity, acceleration, vibration and shock in all their multiple manifestations. The basis of many mechanical sensors is the strain gauge which is usually used in a bridge configuration. Other devices such as the LVDT and synchro are also widely used. Temperature transducers form another large group, and we have looked at the operating principles of the major types, with some of the techniques used in compensating for non-ideal characteristics. Radiation and chemical sensing transducers form the remaining groups. Actuators rely almost entirely on electromagnetic action and, in modern equipment, occur most commonly as solenoids and relays, including the reed relay, and stepper motors. Visual displays also come in a bewildering range of types and sizes, but, because of their ease of interfacing with electronic circuitry, the majority are based on the LED and LCD. Review questions 1. What is meant by gauge factor? 2. Define Young's modulus. 3.

Measurement Sys,5E [Sie]

` In the second edition of Principles I have attempted to maintain the emphasis on basics, while updating the examples to include more recent results from the literature. There is a new chapter providing an overview of extrinsic fluorophores. The discussion of timeresolved measurements has been expanded to two chapters. Quenching has also been expanded in two chapters. Energy transfer and anisotropy have each been expanded to three chapters. There is also a new chapter on fluorescence sensing. To enhance

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the usefulness of this book as a textbook, most chapters are followed by a set of problems. Sections which describe advanced topics are indicated as such, to allow these sections to be skipped in an introduction course. Glossaries are provided for commonly used acronyms and mathematical symbols. For those wanting additional information, the final appendix contains a list of recommended books which expand on various specialized topics.' from the author's Preface

Principles of Program Design

Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters.

Metrology & Measurement

This text presents the subject of instrumentation and its use within measurement systems as an integrated and coherent subject. This edition has been thoroughly revised and expanded with new material

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and five new chapters. Features of this edition are: an integrated treatment of systematic and random errors, statistical data analysis and calibration procedures; inclusion of important recent developments, such as the use of fibre optics and instrumentation networks; an overview of measuring instruments and transducers; and a number of worked examples.

Handbook of Temperature Measurement Vol. 2

For undergraduate or postgraduate measurement labs, and for classes in advanced measurements or instrumentation, this highly acclaimed text provides an unusually in-depth, analytical treatment of measurement methods and systems.

Measurement Systems

The field of electrical measurement continues to grow, with new techniques developed each year. From the basic thermocouple to cutting-edge virtual instrumentation, it is also becoming an increasingly "digital" endeavor. Books that attempt to capture the state-of-the-art in electrical measurement are quickly outdated. Recognizing the need for a text

TRANSDUCERS AND INSTRUMENTATION

Developed from the author's popular graduate-level course, Computational Number Theory presents a complete treatment of number-theoretic algorithms.

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Avoiding advanced algebra, this self-contained text is designed for advanced undergraduate and beginning graduate students in engineering. It is also suitable for researchers new to the field and pract

Principles of Fluorescence Spectroscopy

Praise for the first edition: "This excellent text will be useful to every system engineer (SE) regardless of the domain. It covers ALL relevant SE material and does so in a very clear, methodical fashion. The breadth and depth of the author's presentation of SE principles and practices is outstanding." –Philip Allen This textbook presents a comprehensive, step-by-step guide to System Engineering analysis, design, and development via an integrated set of concepts, principles, practices, and methodologies. The methods presented in this text apply to any type of human system -- small, medium, and large organizational systems and system development projects delivering engineered systems or services across multiple business sectors such as medical, transportation, financial, educational, governmental, aerospace and defense, utilities, political, and charity, among others. Provides a common focal point for "bridging the gap" between and unifying System Users, System Acquirers, multi-discipline System Engineering, and Project, Functional, and Executive Management education, knowledge, and decision-making for developing systems, products, or services Each chapter provides definitions of key terms, guiding principles, examples, author's notes, real-world examples, and exercises, which highlight

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and reinforce key SE&D concepts and practices
Addresses concepts employed in Model-Based Systems Engineering (MBSE), Model-Driven Design (MDD), Unified Modeling Language (UMLTM) / Systems Modeling Language (SysMLTM), and Agile/Spiral/V-Model Development such as user needs, stories, and use cases analysis;
specification development; system architecture development; User-Centric System Design (UCSD); interface definition & control; system integration & test; and Verification & Validation (V&V)
Highlights/introduces a new 21st Century Systems Engineering & Development (SE&D) paradigm that is easy to understand and implement. Provides practices that are critical staging points for technical decision making such as Technical Strategy Development; Life Cycle requirements; Phases, Modes, & States; SE Process; Requirements Derivation; System Architecture Development, User-Centric System Design (UCSD); Engineering Standards, Coordinate Systems, and Conventions; et al.
Thoroughly illustrated, with end-of-chapter exercises and numerous case studies and examples, Systems Engineering Analysis, Design, and Development, Second Edition is a primary textbook for multi-discipline, engineering, system analysis, and project management undergraduate/graduate level students and a valuable reference for professionals.

Physical Principles of Remote Sensing

Handbook of Optical Design

Value Leadership

Volume 2 of the Handbook of Temperature Measurement, prepared by the CSIRO National Measurement Laboratory, Australia, discusses the operation, calibration and usage of resistance and liquid-in-glass thermometers. Both standard-platinum-resistance thermometers and industrial-resistance thermometers are examined, and details on a variety of resistance-measuring techniques are given. Also included is a final version of the official text of the International Temperature Scale 1990 (ITS-90). The authors of this volume are John J. Connolly and E. Corina Horrigan.

Principles of Environmental Physics

Thoroughly revised and up-dated edition of a highly successful textbook.

System Engineering Analysis, Design, and Development

The purpose of this new work is twofold: first, to enable the user to move from understanding basic electronics to understanding how electric theory relates to practical electronic measurements, and second, to give the user knowledge of what instruments are available, their advantages and disadvantages, and how to choose the right class of instrument for a particular job. It provides a breadth of coverage not readily found elsewhere, including

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functional descriptions of voltmeters, ammeters, ohmmeters, signal sources, oscilloscopes, frequency counters, circuits for electronic measurements, frequency domain instruments, and logic analyzers. This volume will be of practical use to electrical engineers and technicians who understand basic electronics and want to learn more about electronic measurements.

Principles of Glacier Mechanics

Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and

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storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

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