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Ph.D.: 2018 UAB CVBE**

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Civil Engineers understand
the importance of a building

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a strong foundation, and for the past 25 years, Fouad Fouad, Ph.D., has focused on just that. A member of the School of Engineering faculty ...

Fouad retires after 40 years on faculty, 25 years as chair of Civil Engineering

The UA System Board of Trustees awarded the rank of Professor Emeritus to Craig Beard, Etty "Tika"

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7 honored with endowed, emeritus professorships

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Andrew Pollard, Ph.D., a longtime professor in the UAB Biomedical Engineering, has announced his retirement effective June 1, 2021, after 25 years with the department. Pollard, who calls himself a ...

Pollard Retires After 25 Years at UAB Biomedical Engineering

Christopher J. Waldron is an Associate Professor in the Department of Civil, Construction, and Environmental Engineering. He brings a diverse mix of public and private sector experience with him to ...

Christopher Waldron

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Communication Resources

In December 2020, the Division of Hematology and Oncology began offering High-Dose-Ara-C (HiDAC) through the UAB Extended Care Clinic, an outpatient chemotherapy service that eliminates the need for ...

Clinic Offers Chemotherapy Without Requiring Hospital Admission

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Data science is one of today's hottest fields. Meet staff from the departments of Medicine and Biostatistics who are preparing to expand their roles at work and pursue personal goals in the university ...

Employees expand careers through data science master's program

Dr. Rouzbeh Nazari is an associate professor and co-director of the Sustainable Smart Cities Research Center (SSCR) with a dual appointment in UAB's Department of Civil, Construction and Environmental ...

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Rouzbeh Ross Nazari

Ph.D., joined UAB faculty as an assistant professor of mechanical engineering before moving over to the UAB Department of Biomedical Engineering in 1999. Today he serves as Professor and Associate ...

Eberhardt Wins 2021 Graduate Dean's Award for Excellence in Mentorship

"These projects are emblematic of the value of partnership in building our neighborhoods," says Fouad Fouad, Ph.D., chair of the Department of Civil, Construction, and Environmental Engineering;

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...

Building Healthier Environments: Philanthropy helps Birmingham neighborhoods get a healthy new look

On Thursday, July 8th UAB will host a covid-19 vaccination clinic for its students and prospective students and their families. It will be from 9:30 a.m. until 1:30 ...

UAB to host a COVID-19 vaccination clinic

After moving to the U.S., Dr. Jack earned his bachelor of science in industrial engineering from Georgia Tech ... of Graduate

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Programs in Healthcare
Quality & Safety at UAB in
the Department of Health ...

Part 3: Caribbean American Influence at UAB

The Nelson Neurophysiology
Lab at UAB (University of
Alabama at Birmingham ...
including neuroscience,
psychology, engineering or
linguistics with an interest
in neuroscience. Good
programming ability ...

**C201101-Neurophysiology,
Department of Neurosurgery**
Researchers at the UAB and
the UniZar have identified a
human peptide found in the
brain that blocks the α -
synuclein aggregates

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involved in Parkinson's disease and prevents their neurotoxicity. The ...

Natural Human Molecule Identified That Blocks Toxic Forms of Parkinson's-Related Protein

Researchers have identified a human peptide found in the brain that blocks the alpha-synuclein aggregates involved in Parkinson's disease and prevents their neurotoxicity.

The Department of Mechanical Engineering within the School of Engineering of the University of Alabama at

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Birmingham highlights its undergraduate and graduate academic programs, admissions requirements for prospective students, upcoming events, research activities, and laboratory facilities. The department lists its faculty and staff members.

A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of

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materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their

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understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.

Voids in Materials treats voids of different shapes and forms in various materials, and examines their effects on material properties. The book covers the origins of voids in materials, how they are sometimes introduced in the form of hollow spheres, and the resultant properties of materials containing voids. There are many books that focus on foams (which

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intentionally incorporate voids into materials) and that cover voids incidental to or unwanted in the fabrication of non-porous materials. In fact, all materials have voids. This book starts from the premise that voids are pervasive in all material on some level. It goes beyond foams to provide a comprehensive overview of voids, a central reference for scientists and engineers to use for the effect of voids in materials. Includes 3D renderings of void geometries Explains how and why voids are introduced into materials across the length scales; from

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nanometer-scale voids up to macro-scale voids Provides a continuous picture of how material properties change as the volume fraction of voids increases, and the implications for product design

From traditional topics that form the core of industrial electronics, to new and emerging concepts and technologies, The Industrial Electronics Handbook, in a single volume, has the field covered. Nowhere else will you find so much information on so many major topics in the field. For facts you need every day, and for discussions on topics you

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have only dreamed of, The Industrial Electronics Handbook is an ideal reference.

Low-power sensors and their applications in various fields ranging from military to civilian lives have made tremendous progress in the recent years. Low-power and extended battery life are the key focuses for long term, reliable and easy operation of these sensors. Sensors and Low Power Signal Processing provides a general overview of a sensor's working principle and a discussion of the emerging sensor technologies including chemical, electro-

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chemical and MEMS based sensors. Also included is a discussion on design challenges associated with low-power analog circuits and the schemes to overcome them. Finally, a short discussion of some of the simple wireless telemetry schemes best suited for low-power sensor applications and sensor packaging issues is discussed. Applications and sensor prototypes included are environmental monitoring, health care monitoring and issues related to the development of sensor prototypes and associated electronics to achieve high signal-to-noise ratio will also be

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presented.

This book provides a collection of the latest advances in engineering education in the Middle East and North Africa (MENA) region and sheds insights for future development. It is one of the first books to address the lack of comprehensive literature on undergraduate engineering curricula, and stimulates intellectual and critical discourse on the next wave of engineering innovation and education in the MENA region. The authors look at recent innovations through the lens of four topics: learning and teaching,

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curriculum development, assessment and accreditation, and challenges and sustainability. They also include analyses of pedagogical innovations, models for transforming engineering education, and methods for using technological innovations to enhance active learning. Engineering education topics on issues such as construction, health and safety, urban design, and environmental engineering in the context of the MENA region are covered in further detail. The book concludes with practical recommendations for

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implementations in engineering education. This is an ideal book for engineering education academics, engineering curriculum developers and accreditation specialists, and deans and leaders in engineering education.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Apply a state-space approach to modern control system analysis and design Written by an expert in the field, this concise

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textbook offers hands-on coverage of modern control system engineering. Modern Control: State-Space Analysis and Design Methods features start-to-finish design projects as well as online snippets of MATLAB code with simulations. The essential mathematics are presented along with fully worked-out examples in gradually increasing degrees of difficulty. Readers will receive “just-in-time” math background from a comprehensive appendix and get step-by-step descriptions of the latest analysis and design techniques. Coverage includes:

- An introduction

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to control systems • State-space representations • Pole placement via state feedback • State estimators (observers) • Non-minimal canonical forms • Linearization • Lyapunov stability • Linear quadratic regulators (LQR) • Symmetric root locus (SRL) • Kalman filter • Linear quadratic gaussian control (LQG)

Creating and sustaining a classroom where every learner succeeds is a challenge for any teacher--especially when the elements of diversity and inclusion are added to the mix. How can teachers differentiate instruction in

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ways that help all students meet standards and develop lifelong learning skills? The authors of *Connecting Teachers, Students, and Standards* provide a comprehensive framework for reaching and teaching English language learners, students from culturally diverse backgrounds, and students with disabilities. In this book, you'll learn how to

- * Select the best instructional methods and materials for diverse learners
- * Create classrooms that are welcoming, practical, and conducive to learning
- * Develop classroom content that allows every student to achieve standards

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while meeting the individual needs of diverse learners *

Collaborate effectively with fellow teachers and education specialists *

Administer assessments that challenge and accommodate diverse learners

The book includes helpful, real-world scenarios that provide tips for connecting with diverse students in the classroom, communicating with their families, and coordinating efforts with colleagues.

Packed with practical strategies for handling difficult issues, this is a go-to guide for any teacher facing the complexities of helping diverse learners flourish at school and

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beyond.

Most textbooks explain quantum mechanics as a story where each step follows naturally from the one preceding it. However, the development of quantum mechanics was exactly the opposite. It was a zigzag route, full of personal disputes where scientists were forced to abandon well-established classical concepts and to explore new and imaginative pathways. Some of the explored routes were successful in providing new mathematical formalisms capable of predicting experiments at the atomic scale. However, even such

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successful routes were painful enough, so that relevant scientists like Albert Einstein and Erwin Schrödinger decided not to support them. In this book, the authors demonstrate the huge practical utility of another of these routes in explaining quantum phenomena in many different research fields. Bohmian mechanics, the formulation of the quantum theory pioneered by Louis de Broglie and David Bohm, offers an alternative mathematical formulation of quantum phenomena in terms of quantum trajectories. Novel computational tools to explore physical scenarios that are currently

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computationally inaccessible, such as many-particle solutions of the Schrödinger equation, can be developed from it.

"Inventing the Sacred" analyzes the Spanish Inquisition's campaign to ferret out "false saints and scandalous impostors" whose claims of divinely inspired visions and revelations threatened the Catholic church's efforts to monopolize access to the supernatural.

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