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grass-roots movement that is changing how people think about the future and about the responsibility of engineering in creating that future.¹ C. Daniel Mote Jr., President, US National Academy of ...

Engineering the Future, Understanding the Past: A Social History of Technology

Professor Dame Ann Dowling was the third guest editor of the Woman's Hour Takeover 2017. The first female president of the Royal Academy of Engineering ... careers of the future, we will want ...

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Five things we learnt about women in engineering from Professor Dame Ann Dowling

I was sceptical, but it is exactly what I wanted to do' When Killian Dowling put journalism courses ... as diverse as business, computing, engineering, and science. Studying mathematics improves your ...

Going to College

College students from the Ripon area received their college degrees and/or were honored for academic excellence.

College students from Ripon and surrounding areas honored for academic excellence

The U of A System Division of Agriculture has appointed Ken Korth, professor of plant pathology, as head

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of the Department of Entomology and Plant Pathology.

Ken Korth Appointed Head of Department of Entomology and Plant Pathology

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Engineering Day

Leading mortgage broker Michael Dowling said that activity in the housing ... while rates of growth in commercial and civil engineering activity accelerated marginally," the survey found.

Surveyors predict house prices in Munster will rise 7% over the next 12 months

The University of North Carolina accepted her into the Gilling's School of Public Health Environmental Science & Engineering ... Dowling said. "Exploring who you are and how you can be your ...

Fair Haven soccer player lived the pro dream. Then came a devastating mental health crisis

Miami-Dade County Mayor Daniella

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Levine Cava said she and her staff will meet with engineering ... Even as officials looked to the future to determine the cause of the collapse, they were resolute ...

Florida officials pledge multiple probes into condo collapse

Bentonville firm CEI Engineering Associates Inc., which has ... How much the most populous states pay mail carriers Creepy ways your company can spy on you while you work from home Major companies ...

Bentonville firm CEI forms department for parks, trails, recreation work particularly those in combat commands or jobs such as field artillery and engineering. And units with more frequent deployments to war also saw higher risk. Other bases with

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high risk were Fort ...

*Study: Texas bases lead Army posts
in risk of sexual assault*

After more than 16 years of research,
engineering, and testing ... telecoms
bosses stake claim to digital future

Thousands descend on Barcelona for
reboot of MWC mobile tech show
Exclusive ...

*Richard Branson WILL beat Jeff Bezos
in billionaire's space race*

The Robotics Institute also includes
the National Robotics Engineering
Center (NREC), which ... that will
make a lasting impact on how the
future of society operates," said
Martial Hebert, the ...

*Robotics/AI Industry Leaders
Announce Commitment to Make*

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Pittsburgh the 'Robotics Capital of the World'

However, if you are interested in the title for your course we can consider offering an examination ... optical and electronic engineering and materials science. The textbook highlights practical ...

Dowling's Engineering Your Future: An Australasian Guide, Fourth Edition is used for first year, core subjects across all Engineering disciplines. Building on the previous editions, this text has been updated with new references, while still maintaining a strong and practical emphasis on skills that are essential for problem solving and design. Numerous topical and locally focused examples of projects

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Across engineering disciplines help demonstrate the role and responsibilities of a professional engineer. Themes of sustainability, ethical practice and effective communication are a constant throughout the text. This full-coloured print with interactive e-text resource has a variety of digital media embedded at the point of learning such as videos and knowledge-check questions to engage students and to help consolidate their learning.

"This is the ideal text for undergraduate students beginning their Engineering studies. It will engage the undergraduate engineering student directly with what it means to be a contemporary engineer in Australia and New Zealand. There is a strong and

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practical emphasis on developing the range of communication and decision-making skills that are essential for tackling engineering problems.

Throughout the text and its accompanying exercises and problems, students are encouraged to reflect on and thereby improve their learning practices."--provided by publisher.

Engineering Your Future: An Australasian Guide, Third edition, is the ideal resource for undergraduate students beginning their engineering studies. Building on the success of the popular first and second editions, this new edition continues the strong and practical emphasis on skills that are essential for engineering problem solving and design. Numerous topical and locally focused examples of

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Projects across the broad range of engineering disciplines help to demonstrate vividly the role and responsibilities of a professional engineer. Themes of sustainability, ethical practice and effective communication are a constant throughout the text. This edition extensively covers the concepts of sustainability, design, engineering economics and professional responsibility. In addition, its many exercises and project activities will encourage students to put key engineering principles and skills into practice.

Recent federal court activity has

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Dramatically changed the regulatory environment of campaign finance in the United States. Since 2010, the judiciary has decided that corporations and labor unions may freely spend in American elections, and that so-called "Super PACs" can accept unlimited contributions from private citizens for the purpose of buying election advertising. Despite the potential for such unregulated contributions to dramatically alter the conduct of campaigns, little is known about where Super PACs get their money, where they spend it, or how their message compares with other political groups. Moreover, we know almost nothing about whether individual citizens even notice Super PACs, or whether they distinguish between Super PAC activity and political activity by other political groups. This book addresses

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those questions. Using campaign finance data, election returns, advertising archives, a public opinion survey, and survey experiments, Super PAC! provides unprecedented insight into the behavior of these organizations, and how they affect public opinion and voting behavior. The first in-depth exploration of the topic, this book will make significant contributions in both political science and applied policy.

The race is on to construct the first quantum code breaker, as the winner will hold the key to the entire Internet. From international, multibillion-dollar financial transactions to top-secret government communications, all would be vulnerable to the secret-code-breaking ability of the quantum computer. Written by a renowned

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Quantum physicist closely involved in the U.S. government's development of quantum information science, Schrödinger's Killer App: Race to Build the World's First Quantum Computer presents an inside look at the government's quest to build a quantum computer capable of solving complex mathematical problems and hacking the public-key encryption codes used to secure the Internet. The "killer application" refers to Shor's quantum factoring algorithm, which would unveil the encrypted communications of the entire Internet if a quantum computer could be built to run the algorithm. Schrödinger's notion of quantum entanglement—and his infamous cat—is at the heart of it all. The book develops the concept of entanglement in the historical context of Einstein's 30-year battle with the

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physics community over the true meaning of quantum theory. It discusses the remedy to the threat posed by the quantum code breaker: quantum cryptography, which is unbreakable even by the quantum computer. The author also covers applications to other important areas, such as quantum physics simulators, synchronized clocks, quantum search engines, quantum sensors, and imaging devices. In addition, he takes readers on a philosophical journey that considers the future ramifications of quantum technologies. Interspersed with amusing and personal anecdotes, this book presents quantum computing and the closely connected foundations of quantum mechanics in an engaging manner accessible to non-specialists. Requiring no formal training in physics or advanced mathematics, it explains

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Difficult topics, including quantum entanglement, Schrödinger's cat, Bell's inequality, and quantum computational complexity, using simple analogies.

This book examines the brief yet accelerated evolution of newsgames, a genre that has emerged from puzzles, quizzes, and interactives augmenting digital journalism into full-fledged immersive video games from open-world designs to virtual reality experiences. Critics have raised questions about the credibility and ethics of transforming serious news stories of political consequence into entertainment media, and the risks of trivializing grave and catastrophic events into mere games. Dowling explores both the negatives of newsgames, and how the use of

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Entertainment media forms and their narrative methods mainly associated with fiction can add new and potentially more powerful meaning to news than traditional formats allow. The book also explores how industrial and cultural shifts in the digital publishing industry have enabled newsgames to evolve in a manner that strengthens certain core principles of journalism, particularly advocacy on behalf of marginalized and oppressed groups. Cutting-edge and thoughtful, *The Gamification of Digital Journalism* is a must-read for scholars, researchers, and practitioners interested in multimedia journalism and immersive storytelling.

As the race to build the world's first quantum computer is coming to an end, the race to build the quantum

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Internet has just started. This book leverages the author's unique insights into both the Chinese and American quantum programs. It begins with the physics and history of the quantum internet and ends with the latest results in quantum computing and quantum networks. The Chinese quantum Sputnik moment. The U.S. National Quantum Initiative. What's up with Quantum Computing Supremacy? The Race to Build the Quantum Internet. Where will Quantum Technology be Tomorrow? Written by a renowned quantum physicist, this book is for everyone who is interested in the rapidly advancing field of Quantum Technology — The Second Quantum Revolution. The 2016 launch of the Chinese quantum satellite Mozi was a quantum Sputnik moment. The United

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States went from thinking it was ten years ahead of the Chinese to the realization that it was ten years behind them. This quantum gap led to the U.S. National Quantum Initiative, launched in 2018. Since then, the race to build the quantum internet has taken off at breakneck speed.

Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits

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and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the

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