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This book constitutes the refereed proceedings of the 19th International Conference on Engineering Applications of Neural Networks, EANN 2019, held in Xersonisos, Crete, Greece, in May 2019. The 35 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 72 submissions. The papers are organized in topical sections on AI in energy management - industrial applications; biomedical - bioinformatics modeling; classification - learning; deep learning; deep learning - convolutional ANN; fuzzy - vulnerability - navigation modeling; machine learning modeling - optimization; ML -

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*DL financial modeling; security -
anomaly detection; 1st PEINT
workshop.*

*Climate Change, the Indoor
Environment, and Health National
Academies Press*

*This book focuses primarily on both
technical and business aspects
needed to select, design, develop and
deploy control application (or product)
successfully for multiple components in
building systems. Designing and
deploying a control application require
multiple steps such as sensing, system
dynamics modelling, algorithms, and
testing. This may involve choosing an
appropriate methodology and
technique at multiple stages during the
development process. Understanding
the pros and cons of such techniques,
most importantly being aware of
practically possible approaches in the*

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entire ecosystem, is critical in choosing the best framework and system application for different parts of building systems. Providing a wide overview of the state-of art in controls and building systems, providing guidance on developing an end-to-end system in relation to business fundamentals (distribution channels, stakeholders, marketing, supply-chain and financial management), the book is ideal for fourth-year control/mechanical/electrical engineering undergraduates, graduate students, and practitioners including business leaders concerned with smart building technology.

This book presents the proceedings of the 13th International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS 2018), held in Warsaw, Poland on August 27–28,

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2018. It includes contributions from diverse areas of soft computing such as uncertain computation, Z-information processing, neuro-fuzzy approaches, evolutionary computing and others. The topics of the papers include theory of uncertainty computation; theory and application of soft computing; decision theory with imperfect information; neuro-fuzzy technology; image processing with soft computing; intelligent control; machine learning; fuzzy logic in data analytics and data mining; evolutionary computing; chaotic systems; soft computing in business, economics and finance; fuzzy logic and soft computing in the earth sciences; fuzzy logic and soft computing in engineering; soft computing in medicine, biomedical engineering and the pharmaceutical sciences; and probabilistic and

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statistical reasoning in the social and educational sciences. The book covers new ideas from theoretical and practical perspectives in economics, business, industry, education, medicine, the earth sciences and other fields. In addition to promoting the development and application of soft computing methods in various real-life fields, it offers a useful guide for academics, practitioners, and graduates in fuzzy logic and soft computing fields.

*5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, Gurugram, India, November 15–16, 2019, Revised Selected Papers, Part II
Multi-Objective Optimization using Evolutionary Algorithms
The Way of Imagination
Home Power*

13th International Conference on
Theory and Application of Fuzzy
Systems and Soft Computing —
ICAFS-2018

*Understanding the Global Energy
Crisis*

***Designing and building healthy and
environmentally friendly houses. US
origin.***

***America's economy and lifestyles have
been shaped by the low prices and
availability of energy. In the last
decade, however, the prices of oil,
natural gas, and coal have increased
dramatically, leaving consumers and
the industrial and service sectors
looking for ways to reduce energy use.
To achieve greater energy efficiency,
we need technology, more informed
consumers and producers, and
investments in more energy-efficient***

industrial processes, businesses, residences, and transportation. As part of the America's Energy Future project, Real Prospects for Energy Efficiency in the United States examines the potential for reducing energy demand through improving efficiency by using existing technologies, technologies developed but not yet utilized widely, and prospective technologies. The book evaluates technologies based on their estimated times to initial commercial deployment, and provides an analysis of costs, barriers, and research needs. This quantitative characterization of technologies will guide policy makers toward planning the future of energy use in America. This book will also have much to offer to industry leaders,

investors, environmentalists, and others looking for a practical diagnosis of energy efficiency possibilities.

This book embodies principles and applications of advanced soft computing approaches in engineering, healthcare and allied domains directed toward the researchers aspiring to learn and apply intelligent data analytics techniques. The first part covers AI, machine learning and data analytics tools and techniques and their applications to the class of several hospital and health real-life problems. In the later part, the applications of AI, ML and data analytics shall be covered over the wide variety of applications in hospital, health, engineering and/or

applied sciences such as the clinical services, medical image analysis, management support, quality analysis, bioinformatics, device analysis and operations. The book presents knowledge of experts in the form of chapters with the objective to introduce the theme of intelligent data analytics and discusses associated theoretical applications. At last, it presents simulation codes for the problems included in the book for better understanding for beginners. The one-stop guide for choosing a green building rating system Today, sustainability is a growing concern for the architects, designers, builders, and owners of commercial and residential buildings. Meeting the requirements of a rating system provides a metric to

evaluate and set priorities. But the variety and complexity of methods available to assess the eco-friendliness of a building can seem overwhelming. Guide to Green Building Rating Systems informs readers about the rating system selection process. Comparing essential issues such as cost, ease of use, and building performance, this book offers solid guidance that will help readers find the rating system that best fits their needs. This easy-to-follow reference includes: An overview of the major national rating systems, including LEED®, Green Globes®, the National Green Building Standard, and ENERGY STAR® An in-depth look at each rating system, including its evolution, objectives, point

structure, levels of certification, benefits, and shortcomings How the ratings systems work for different types of buildings—commercial, multi-family residential, and single-family residential construction Illustrated case studies from different climate regions with project descriptions, cost data, and lessons learned by design teams, constructors, and owners An overview of local, regional, and international rating systems Guide to Green Building Rating Systems demystifies complex material, making this book an essential reference for building professionals engaged in, or wishing to pursue, sustainable building practices.

**Residential Duct Systems - Manual D
EANN 2021**

***Proceedings of the EANN 2020
Smart Monitoring and Control in the
Future Internet of Things
Saving Energy, Growing Jobs
How Environmental Protection
Promotes Economic Growth,
Profitability, Innovation, and
Competition***

Build better relationships and Sell More Effectively With a Powerful SALES STORY “Throughout our careers, we have been trained to ask diagnostic questions, deliver value props, and conduct ROI studies. It usually doesn’t work; best case, we can argue with the customer about numbers—purely a left brain exercise, which turns buyers off. This book explains a better way.” —John Burke, Group

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Vice President, Oracle Corporation

“Forget music, a great story has charm to soothe the savage beast and win over the most challenging customer. And one of the best guides in crafting it, feeling it, and telling it is What Great Salespeople Do. A must-read for anyone seeking to influence another human being.” —Mark Goulston, M.D., author of the #1

international bestseller Just Listen: Discover the Secret to Getting Through to Absolutely Anyone

“Good salespeople tell stories that inform prospects; great salespeople tell stories that persuade prospects. This book reveals what salespeople need to do to become persuasive story

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*sellers.” —Gerhard Gschwandtner,
publisher of Selling Power “This
book breaks the paradigm. It really
works miracles!” —David R.
Hibbard, President, Dialexis Inc™
“What Great Salespeople Do
humanizes the sales process.”
—Kevin Popovic, founder,
Ideahaus® “Mike and Ben have
translated what therapists have
known for years into a business
solution—utilizing and developing
one’s Emotional Intelligence to
engage and lessen the defenses of
others. What Great Salespeople Do
is a step-by-step manual on how to
use compelling storytelling to
masterfully engage others and
make their organizations great.”
—Christine Miles, M.S.,*

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Psychological Services, Executive Coach, Miles Consulting LLC About the Book: This groundbreaking book offers extraordinary insight into the greatest mystery in sales: how the very best salespeople consistently and successfully influence change in others, inspiring their customers to say yes. Top-performing salespeople have always had a knack for forging connections and building relationships with buyers. Until now, this has been considered an innate talent. What Great Salespeople Do challenges some of the most widely accepted paradigms in selling in order to prove that influencing change in buyers is a skill that anyone can

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learn. The creator of Solution Selling and CustomerCentric Selling, Michael Bosworth, along with veteran sales executive Ben Zoldan, synthesize discoveries in neuroscience, psychology, sociology, anthropology, and other disciplines, combining it all into a field-tested framework—helping you break down barriers, build trust, forge meaningful relationships, and win more customers. This book teaches you how to: Relax a buyer's skepticism while activating the part of his or her brain where trust is formed and connections are forged Use the power of story to influence buyers to change Make your ideas, beliefs, and experiences

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“storable” using a proven story structure Build a personal inventory of stories to use throughout your sales cycle Tell your stories with authenticity and real passion Use empathic listening to get others to reveal themselves Incorporate storytelling and empathic listening to achieve collaborative conversations with buyers Breakthroughs in neuroscience have determined that people don’t make decisions solely on the basis of logic; in fact, emotions play the dominant role in most decision-making processes. What Great Salespeople Do gives you the tools and techniques to influence change and win more sales.

Computer vision is a field of artificial intelligence that trains computers to interpret and understand the visual world. In recent years, computer vision has begun to rival and even surpass human visual abilities in many areas. SAS offers many different solutions to train computers to "see" by identifying and classifying objects, and several groundbreaking papers have been written to demonstrate these techniques. The papers included in this special collection demonstrate how the latest computer vision tools and techniques can be used to solve a variety of business problems.

Energy Modeling in Architectural

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Design demonstrates how design elements can lead to energy savings, to help you reduce the energy footprint of your buildings. In addition to identifying climate opportunities, you'll also learn fundamental passive design elements for software-agnostic energy modeling of your projects from conception. Using parametric models and testing each element during design will lead you to create beautiful and high-performance buildings. Illustrated with more than 100 color images, this book also includes a pattern guide for high-performance buildings, discusses energy and daylighting optimization, and has a glossary for easy reference.

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This book reports innovative deep learning and big data analytics technologies for smart manufacturing applications. In this book, theoretical foundations, as well as the state-of-the-art and practical implementations for the relevant technologies, are covered. This book details the relevant applied research conducted by the authors in some important manufacturing applications, including intelligent prognosis on manufacturing processes, sustainable manufacturing and human-robot cooperation. Industrial case studies included in this book illustrate the design details of the algorithms and methodologies for

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the applications, in a bid to provide useful references to readers. Smart manufacturing aims to take advantage of advanced information and artificial intelligent technologies to enable flexibility in physical manufacturing processes to address increasingly dynamic markets. In recent years, the development of innovative deep learning and big data analytics algorithms is dramatic. Meanwhile, the algorithms and technologies have been widely applied to facilitate various manufacturing applications. It is essential to make a timely update on this subject considering its importance and rapid progress. This book offers a

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valuable resource for researchers in the smart manufacturing communities, as well as practicing engineers and decision makers in industry and all those interested in smart manufacturing and Industry 4.0.

International Codes

Data Science and Analytics

Special Collection

Income Averaging

Third Edition, Version 2. 50

2021 International Energy

Conservation Code

The Internet of Things (IoT) and related technologies have the promise of realizing pervasive and smart applications which, in turn, have the potential of improving the quality of life of

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people living in a connected world. According to the IoT vision, all things can cooperate amongst themselves and be managed from anywhere via the Internet, allowing tight integration between the physical and cyber worlds and thus improving efficiency, promoting usability, and opening up new application opportunities. Nowadays, IoT technologies have successfully been exploited in several domains, providing both social and economic benefits. The realization of the full potential of the next generation of the Internet of Things still needs further

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research efforts concerning, for instance, the identification of new architectures, methodologies, and infrastructures dealing with distributed and decentralized IoT systems; the integration of IoT with cognitive and social capabilities; the enhancement of the sensing-analysis-control cycle; the integration of consciousness and awareness in IoT environments; and the design of new algorithms and techniques for managing IoT big data. This Special Issue is devoted to advancements in technologies, methodologies, and applications for IoT,

together with emerging standards and research topics which would lead to realization of the future Internet of Things. This book contains the proceedings of the 22nd EANN “ Engineering Applications of Neural Networks ” 2021 that comprise of research papers on both theoretical foundations and cutting-edge applications of artificial intelligence. Based on the discussed research areas, emphasis is given in advances of machine learning (ML) focusing on the following algorithms-approaches: Augmented ML, autoencoders, adversarial neural networks, blockchain-adaptive

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methods, convolutional neural networks, deep learning, ensemble methods, learning-federated learning, neural networks, recurrent – long short-term memory. The application domains are related to: Anomaly detection, bio-medical AI, cyber-security, data fusion, e-learning, emotion recognition, environment, hyperspectral imaging, fraud detection, image analysis, inverse kinematics, machine vision, natural language, recommendation systems, robotics, sentiment analysis, simulation, stock market prediction.

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The Study Companion is a comprehensive self-study guide for the 2009 International Energy Conservation Code. Ten study sessions cover administration and enforcement as well as energy efficiency in residential and commercial structures. A 20-question quiz is provided at the end of each study session.

Energy efficiency is critical for running computer vision on battery-powered systems, such as mobile phones or UAVs (unmanned aerial vehicles, or drones). This book collects the methods that have won the annual IEEE Low-Power

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Computer Vision Challenges since 2015. The winners share their solutions and provide insight on how to improve the efficiency of machine learning systems.

Computer Vision with SAS
Leading-Edge Design and
Construction of Homes and
Buildings for a Renewable
Energy Future
Study Companion

Improve the Efficiency of
Artificial Intelligence

The New Net Zero

2018 International Mechanical
Code, Loose-Leaf Version

**Provides a guide for the
inexperienced homeowner on**

how to improve the energy consumption of a home, and includes tips on budget planning, air ventilation, energy-saving HVAC systems, and building codes and permits. This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next

generation computing; social and web analytics; security in data science analytics; big data analytics.

Examines the argument used by antienvironmentalists that a clean environment requires unacceptable harm to economic well-being and argues that environmental regulations can promote economic development.

Customize your 2018

INTERNATIONAL FUEL GAS CODE Soft Cover book with updated, easy-to-use TURBO TABS. These handy tabs will highlight the most frequently referenced sections of the latest version of the IFGC. They have been strategically designed by

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**industry experts so that users
can quickly and efficiently
access the information they
need, when they need it.**

**Engineering Applications of
Neural Networks**

AI and Machine Learning

**Paradigms for Health Monitoring
System**

**Climate Change, the Indoor
Environment, and Health**

Understanding LEED, Green

**Globes, Energy Star, the National
Green Building Standard, and**

More

Building Radon Out

A Design & Construction Guide

With an emphasis on design and
installation for optimum
performance, the 2015

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INTERNATIONAL PLUMBING CODE
SOFT COVER sets forth established requirements for plumbing systems. This important reference guide includes provisions for fixtures, piping, fittings, and devices, as well as design and installation methods for water supply, sanitary drainage, and storm drainage. The 2015 edition of the code includes information on public toilet facilities, as well as water temperature limiting devices, and replacement water heater installation. Using both prescriptive- and performance-related specifications, this code provides comprehensive minimum regulations for a variety of plumbing facilities, facilitating the design and acceptance of new and innovative products, materials, and systems. The Third Edition of ANSI/ACCA

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Manual D is the Air Conditioning Contractors of America procedure for sizing residential duct systems. This procedure uses Manual J (ANSI/ACCA, Eighth Edition) heating and cooling loads to determine space air delivery requirements. This procedure matches duct system resistance (pressure drop) to blower performance (as defined by manufacturer's blower performance tables). This assures that appropriate airflow is delivered to all rooms and spaces; and that system airflow is compatible with the operating range of primary equipment. The capabilities and sensitivities of this procedure are compatible with single-zone systems, and multi-zone (air zoned) systems. The primary equipment can have a multi-speed blower (PSC motor), or a variable-

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speed blower (ECM or constant torque motor, or a true variable speed motor). Edition Three, Version 2.50 of Manual D (D3) specifically identifies normative requirements, and specifically identifies related informative material.

GREEN BUILDING: PRINCIPLES AND PRACTICES IN RESIDENTIAL CONSTRUCTION provides a current, comprehensive guide to this exciting, emerging field. From core concepts to innovative applications of cutting-edge technology and the latest industry trends, this text offers an in-depth introduction to the construction of green homes. Unlike many texts that adopt a product-oriented approach, this book emphasizes the crucial planning, processes, and execution methods necessary for effective,

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environmentally sound construction. This text demonstrates that Earth-friendly products and energy-efficient materials take planning in order to make a building truly green. This visionary text helps students and professionals develop the knowledge and skills to think green from start to finish, empowering and inspiring them to build truly sustainable homes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The new threshold for green building is not just low energy, it's net-zero energy. In *The New Net Zero*, sustainable architect Bill Maclay charts the path for designers and builders interested in exploring green design's new-frontier net-zero-

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energy structures that produce as much energy as they consume and are carbon neutral. In a nation where traditional buildings use roughly 40 percent of the total fossil energy, the interest in net-zero building is growing enormously--among both designers interested in addressing climate change and consumers interested in energy efficiency and long-term savings. Maclay, an award-winning net-zero designer whose buildings have achieved high-performance goals at affordable costs, makes the case for a net-zero future; explains net-zero building metrics, integrated design practices, and renewable energy options; and shares his lessons learned on net-zero teambuilding. Designers and builders will find a wealth of state-of-the-art information on such

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considerations as air, water, and vapor barriers; embodied energy; residential and commercial net-zero standards; monitoring and commissioning; insulation options; costs; and more. The comprehensive overview is accompanied by several case studies, which include institutional buildings, commercial projects, and residences. Both new-building and renovation projects are covered in detail. The New Net Zero is geared toward professionals exploring net-zero design, but also suitable for nonprofessionals seeking ideas and strategies on net-zero options that are beautiful and renewably powered.

Low-Power Computer Vision
Advanced Controls for Intelligent
Buildings
Intelligent Data Analytics

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Essays

Proceedings of the 21st EANN
(Engineering Applications of Neural
Networks) 2020 Conference

Proceedings of the 22nd Engineering
Applications of Neural Networks
Conference

We are facing a global energy crisis caused by world population growth, an escalating increase in demand, and continued dependence on fossil-based fuels for generation. It is widely accepted that increases in greenhouse gas concentration levels, if not reversed, will result in major changes to world climate with consequential effects on our society and economy. This is just the kind of intractable problem that Purdue

University's Global Policy Research Institute seeks to address in the Purdue Studies in Public Policy series by promoting the engagement between policy makers and experts in fields such as engineering and technology. Major steps forward in the development and use of technology are required. In order to achieve solutions of the required scale and magnitude within a limited timeline, it is essential that engineers be not only technologically-adept but also aware of the wider social and political issues that policy-makers face. Likewise, it is also imperative that policy makers

liaise closely with the academic community in order to realize advances. This book is designed to bridge the gap between these two groups, with a particular emphasis on educating the socially-conscious engineers and technologists of the future. In this accessibly-written volume, central issues in global energy are discussed through interdisciplinary dialogue between experts from both North America and Europe. The first section provides an overview of the nature of the global energy crisis approached from historical, political, and sociocultural perspectives. In the second section, expert

contributors outline the technology and policy issues facing the development of major conventional and renewable energy sources. The third and final section explores policy and technology challenges and opportunities in the distribution and consumption of energy, in sectors such as transportation and the built environment. The book's epilogue suggests some future scenarios in energy distribution and use.

This book gathers the proceedings of the 21st Engineering Applications of Neural Networks Conference, which is supported by the International Neural Networks

Society (INNS). Artificial Intelligence (AI) has been following a unique course, characterized by alternating growth spurts and “AI winters.” Today, AI is an essential component of the fourth industrial revolution and enjoying its heyday. Further, in specific areas, AI is catching up with or even outperforming human beings. This book offers a comprehensive guide to AI in a variety of areas, concentrating on new or hybrid AI algorithmic approaches with robust applications in diverse sectors. One of the advantages of this book is that it includes robust algorithmic approaches and

applications in a broad spectrum of scientific fields, namely the use of convolutional neural networks (CNNs), deep learning and LSTM in robotics/machine vision/engineering/image processing/medical systems/the environment; machine learning and meta learning applied to neurobiological modeling/optimization; state-of-the-art hybrid systems; and the algorithmic foundations of artificial neural networks.

"A member of the International Code Family"--Cover.

The 7th Edition (2020) update to the Florida Building Code: Energy Conservation is a fully integrated publication that

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**updates the 6th Edition 2017
Florida Building Code: Energy
Conservation using the latest
changes to the 2018 International
Energy Conservation Code® with
customized amendments
adopted statewide. Chapter tabs
are also included. Effective Date:
December 31, 2020
Advances in Security, Networks,
and Internet of Things
International Energy
Conservation Code
International Fuel Gas Code
Turbo Tabs 2018
The Drug-Free Schools and
Communities Act
Florida Building Code - Energy
Conservation, 7th Edition (2020)
Healthy House Building**

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The book presents the proceedings of four conferences: The 19th International Conference on Security & Management (SAM'20), The 19th International Conference on Wireless Networks (ICWN'20), The 21st International Conference on Internet Computing & Internet of Things (ICOMP'20), and The 18th International Conference on Embedded Systems, Cyber-physical Systems (ESCS'20). The conferences took place in Las Vegas, NV, USA, July 27-30, 2020. The conferences are part of the larger 2020 World Congress in Computer Science,

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Computer Engineering, & Applied Computing (CSCE'20), which features 20 major tracks. Authors include academics, researchers, professionals, and students. Presents the proceedings of four conferences as part of the 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20); Includes the tracks on security & management, wireless networks, internet computing and IoT, and embedded systems as well as cyber-physical systems; Features papers from SAM'20, ICWN'20, ICOMP'20 and ESCS'20.

Evolutionary algorithms are relatively new, but very powerful techniques used to find solutions to many real-world search and optimization problems. Many of these problems have multiple objectives, which leads to the need to obtain a set of optimal solutions, known as effective solutions. It has been found that using evolutionary algorithms is a highly effective way of finding multiple effective solutions in a single simulation run.

*Comprehensive coverage of this growing area of research
Carefully introduces each
algorithm with examples and in-
depth discussion Includes many*

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applications to real-world problems, including engineering design and scheduling Includes discussion of advanced topics and future research Can be used as a course text or for self-study Accessible to those with limited knowledge of classical multi-objective optimization and evolutionary algorithms The integrated presentation of theory, algorithms and examples will benefit those working and researching in the areas of optimization, optimal design and evolutionary computing. This text provides an excellent introduction to the use of evolutionary algorithms in multi-

objective optimization, allowing use as a graduate course text or for self-study.

Prize-winning essayist turns to the imagination as a spiritual guide and material method of living through climate disruption, as climate change and broad extinction forever alter our place on the planet and our lives together. Scott Russell Sanders shows how imagination, linked to compassion, can help us solve the urgent ecological and social challenges we face. While reflecting on the conditions needed for human flourishing, he tells the story of his own intellectual and moral journey

from childhood religion to an adult philosophy of life. That philosophy is tested when his first wife and then their son fall ill. Compelled to leave their beloved old house, they design a new one, and then transform their vision into a home and their raw city lot into a garden.

The 2021 IECC addresses energy efficiency on several fronts including cost, energy usage, use of natural resources and the impact of energy usage on the environment.

How to Create a Comfortable, Healthy Home that Saves Energy

Smart Trends in Computing and

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Communications

*A Step-by-step Guide on how to
Build Radon-resistant Homes
20th International Conference,
EANN 2019, Xersonisos, Crete,
Greece, May 24-26, 2019,
Proceedings*

*ICC 700-2020 National Green
Building Standard*

Electricity & Buildings

The indoor environment affects occupants' health and comfort. Poor environmental conditions and indoor contaminants are estimated to cost the U.S. economy tens of billions of dollars a year in exacerbation of illnesses like asthma, allergic symptoms, and subsequent lost productivity. Climate change has the potential to affect the indoor environment because conditions inside buildings are influenced by

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conditions outside them. Climate Change, the Indoor Environment, and Health addresses the impacts that climate change may have on the indoor environment and the resulting health effects. It finds that steps taken to mitigate climate change may cause or exacerbate harmful indoor environmental conditions. The book discusses the role the Environmental Protection Agency (EPA) should take in informing the public, health professionals, and those in the building industry about potential risks and what can be done to address them. The study also recommends that building codes account for climate change projections; that federal agencies join to develop or refine protocols and testing standards for evaluating emissions from materials, furnishings, and appliances used in buildings; and that building weatherization efforts include consideration of health effects. Climate

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Change, the Indoor Environment, and Health is written primarily for the EPA and other federal agencies, organizations, and researchers with interests in public health; the environment; building design, construction, and operation; and climate issues.

The ICC 700-2020 National Green Building Standard® (NGBS) is an American National Standards Institute (ANSI) --approved, residential building standard. This fourth edition was developed by an independent consensus committee of a broad range of stakeholders in partnership between the International Code Council and the National Association of Home Builders. The NGBS outlines a variety of green design and construction practices that can be incorporated into your single-family, multifamily, and mixed-use buildings, either for new construction or remodeling.

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The NGBS also includes green practices for land development projects as well as assisted living facilities, residential board, and care facilities, and group homes. The NGBS includes high-performance building practices in six areas: Lot Design and Development, Resource Efficiency, Water Efficiency, Energy Efficiency, Indoor Environmental Quality, and Building Operation & Maintenance. The NGBS has four primary certification levels--Bronze, Silver, Gold and Emerald, providing residential building professionals options to integrate sustainability and high-performance into their project at a level most appropriate for their business model, customer base and local housing market. A new compliance path (Certified) customized for single-family and townhome dwellings is added in the 2020 Edition. The NGBS also offers a compliance path for residential and

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mixed-use communities with four levels of land development practices, ranging from One-Star through Four-Star. The 2020 edition expands the application of innovative practices, offers additional options towards achieving certification, and builds upon a decade strong foundation of program use. The NGBS continues to provide architects, builders, and developers the flexibility needed to design and construct homes and mixed-use buildings that are sustainable, cost-effective and appropriate for a home's geographic location.

**Green Building: Principles and Practices
in Residential Construction**

**Proceedings from SAM'20, ICWN'20,
ICOMP'20, and ESCS'20**

**What Great Salespeople Do: The Science
of Selling Through Emotional Connection
and the Power of Story**

Data Driven Smart Manufacturing

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Technologies and Applications

Guide to Green Building Rating Systems

No Regrets Remodeling