

## The Grid The Decision Making Tool For Every Business Including Yours

The old saying goes, "To the man with a hammer, everything looks like a nail." But anyone who has done any kind of project knows a hammer often isn't enough. The more tools you have at your disposal, the more likely you'll use the right tool for the job - and get it done right. The same is true when it comes to your thinking. The quality of your outcomes depends on the mental models in your head. And most people are going through life with little more than a hammer. Until now. The Great Mental Models: General Thinking Concepts is the first book in The Great Mental Models series designed to upgrade your thinking with the best, most useful and powerful tools so you always have the right one on hand. This volume details nine of the most versatile, all-purpose mental models you can use right away to improve your decision making, productivity, and how clearly you see the world. You will discover what forces govern the universe and how to focus your efforts so you can harness them to your advantage, rather than fight with them or worse yet- ignore them. Upgrade your mental toolbox and get the first volume today. AUTHOR BIOGRAPHY Farnam Street (FS) is one of the world's fastest growing websites, dedicated to helping our readers master the best of what other people have already figured out. We curate, examine and explore the timeless ideas and mental models that history's brightest minds have used to live lives of purpose. Our readers include students, teachers, CEOs, coaches, athletes, artists, leaders, followers, politicians and more. They're not defined by gender, age, income, or politics but rather by a shared passion for avoiding problems, making better decisions, and lifelong learning. AUTHOR HOME Ottawa, Ontario, Canada

Why would a successful American physician choose to live in a twelve-foot-by-twelve-foot cabin without running water or electricity? To find out, writer and activist William Powers visited Dr. Jackie Benton in rural North Carolina. No Name Creek gurgled through Benton's permaculture farm, and she stroked honeybees' wings as she shared her wildcrafter philosophy of living on a planet in crisis. Powers, just back from a decade of international aid work, then accepted Benton's offer to stay at the cabin for a season while she traveled. There, he befriended her eclectic neighbors — organic farmers, biofuel brewers, eco-developers — and discovered a sustainable but imperiled way of life. In these pages, Powers not only explores this small patch of community but draws on his international experiences with other pockets of resistance. This engrossing tale of Powers's struggle for a meaningful life with a smaller footprint proposes a paradigm shift to an elusive "Soft World" with clues to personal happiness and global healing.

From the Nobel Prize-winning author of Thinking, Fast and Slow and the coauthor of Nudge, a revolutionary exploration of why people make bad judgments and how to make better ones—"a tour de force" (New York Times). Imagine that two doctors in the same city give different diagnoses to identical patients—or that two judges in the same courthouse give markedly different sentences to people who have committed the same crime. Suppose that different interviewers at the same firm make different decisions about indistinguishable job applicants—or that when a company is handling customer complaints, the resolution depends on who happens to answer the phone. Now imagine that the same doctor, the same judge, the same interviewer, or the same customer service agent makes different decisions depending on whether it is morning or afternoon, or Monday rather than Wednesday. These are examples of noise: variability in judgments that should be identical. In Noise, Daniel Kahneman, Olivier Sibony, and Cass R. Sunstein show the detrimental effects of noise in many fields, including medicine, law, economic forecasting, forensic science, bail, child protection, strategy, performance reviews, and personnel selection. Wherever there is judgment, there is noise. Yet, most of the time, individuals and organizations alike are unaware of it. They neglect noise. With a few simple remedies, people can reduce both noise and bias, and so make far better decisions. Packed with original ideas, and offering the same kinds of research-based insights that made Thinking, Fast and Slow and Nudge groundbreaking New York Times bestsellers, Noise explains how and why humans are so susceptible to noise in judgment—and what we can do about it.

Many organizations don't know how to make and execute good decisions. In this book, the authors draw on Bain & Company's extensive research and experience to present a five-step process for improving your company's decision abilities.--[book jacket]

A Clinical Perspective

Hybrid Intelligence for Smart Grid Systems

Intelligent Renewable Energy Systems

Ethics and Decision Making in Counseling and Psychotherapy, Fourth Edition

Theory and Application

The Decision-making Tool for Every Business (Including Yours)

How Courageous Companies Thrive by Giving More Than They Take

This is a book for managers who know that their organisations are stuck in a mindset that thrives on fashionable business theories that are no more than folk wisdom, and whose so-called strategies that are little more than banal wish lists. It puts forward the notion that the application of uncommon sense - thinking or acting differently from other organisations in a way that makes unusual sense - is the secret to competitive success. For those who want to succeed and stand out from the herd this book is a beacon of uncommon sense and a timely antidote to managerial humbug.

This open access book explores the collision between the sustainable energy transition and the Internet of Things (IoT). In that regard, this book's arrival is timely. Not only is the Internet of Things for energy applications, herein called the energy Internet of Things (eIoT), rapidly developing but also the transition towards sustainable energy to abate global climate is very much at the forefront of public discourse. It is within the context of these two dynamic thrusts, digitization and global climate change, that the energy industry sees itself undergoing significant change in how it is operated and managed. This book recognizes that they impose five fundamental energy management change drivers: 1.) the growing demand for electricity, 2.) the emergence of renewable energy resources, 3.) the emergence of electrified transportation, 4.) the deregulation of electric power markets, 5.) and innovations in smart grid technology. Together, they challenge many of the assumptions upon which the electric grid was first built. The goal of this book is to provide a single integrated picture of how eIoT can come to transform our energy infrastructure. This book links the energy management change drivers mentioned above to the need for a technical energy management solution. It, then, describes how eIoT meets many of the criteria required for such a technical solution. In that regard, the book stresses the ability of eIoT to add sensing, decision-making, and actuation capabilities to millions or perhaps even billions of interacting "smart" devices. With such a large scale transformation composed of so many independent actions, the book also organizes the discussion into a single multi-layer energy management control loop structure. Consequently, much attention is given to not just network-enabled physical devices but also communication networks, distributed control & decision making, and finally technical architectures and standards. Having gone into the detail of these many simultaneously developing technologies, the book returns to how these technologies when integrated form new applications for transactive energy. In that regard, it highlights several eIoT-enabled energy management use cases that fundamentally change the relationship between end users, utilities, and grid operators. Consequently, the book discusses some of the emerging applications for utilities, industry, commerce, and residences. The book concludes that these eIoT applications will transform today's grid into one that is much more responsive, dynamic, adaptive and flexible. It also concludes that this transformation will bring about new challenges and opportunities for the cyber-physical-economic performance of the grid and the business models of its increasingly growing number of participants and stakeholders.

'A highly original, electrifying read' The Times 'A stylish, riveting thriller' Daily Mail 'An assured page-turner ... it combines action and foreign locations with big ideas a la Dan Brown' Sunday Times The US President Thompson has been dreaming of his own death. A repeating nightmare that hounds him night after night that he can't ignore: something tells him it's not just a dream, it feels too real. Thompson's doctor, military psychiatrist Josh Cain, is summoned to a church tower near the White House. He thinks he is there to talk down another suicidal ex-Marine. But the man he finds tells him of a plot to kill Thompson, revealing secrets he can't possibly have known - just seconds before a sniper's bullet takes him out . . . Battles have been fought man to man, then machine to machine, and even in cyberspace. But now there is a different battlefield emerging: human consciousness and the fight for our minds. What readers are saying: \*\*\*\*\* 'A classy, intelligent and reflective investigative thriller.' \*\*\*\*\* 'A layered plot, engaging characters and a spine chilling ring of truth to the plot, which lured me in and kept me trapped until the final page.' \*\*\*\*\* 'A real page turner with plenty of surprises and twists. Great read.' \*\*\*\*\* 'THE BEST BOOK THAT I'VE READ ALL YEAR!'

As the electric power industry faces the challenges of climate change, technological disruption, new market imperatives, and changing policies, a renowned energy expert offers a roadmap to the future of this essential sector. As the damaging and costly impacts of climate change increase, the rapid development of sustainable energy has taken on great urgency. The electricity industry has responded with necessary but wrenching shifts toward renewables, even as it faces unprecedented challenges and disruption brought on by new technologies, new competitors, and policy changes. The result is a collision course between a grid that must provide abundant, secure, flexible, and affordable power, and an industry facing enormous demands for power and rapid, systemic change. The fashionable solution is to think small: smart buildings, small-scale renewables, and locally distributed green energy. But Peter Fox-Penner makes clear that these will not be enough to meet our increasing needs for electricity. He points instead to the indispensability of large power systems, battery storage, and scalable carbon-free power technologies, along with the grids and markets that will integrate them. The electric power industry and its regulators will have to provide all of these, even as they grapple with changing business models for local electric utilities, political instability, and technological change. Power after Carbon makes sense of all the moving parts, providing actionable recommendations for anyone involved with or relying on the electric power system.

Concepts and Resources for Managers

eIoT

Research Anthology on Smart Grid and Microgrid Development

Cross-Cultural Behavior in Crisis Preparedness and Response

Electric Power Struggles

A One-Room Cabin off the Grid & Beyond The American Dream

Power after Carbon

*Decision Making Applications in Modern Power Systems presents an enhanced decision-making framework for power systems. Designed as an introduction to enhanced electricity system analysis using decision-making tools, it provides an overview of the different elements, levels and actors involved within an integrated framework for decision-making in the power sector. In addition, it presents a state-of-play on current energy systems, strategies, alternatives, viewpoints and priorities in support of decision-making in the electric power sector, including discussions of energy storage and smart grids. As a practical training guide on theoretical developments and the application of advanced methods for practical electrical energy engineering problems, this reference is ideal for use in establishing medium-term and long-term strategic plans for the electric power and energy sectors. Provides panoramic coverage of state-of-the-art energy systems, strategies and priorities in support of electrical power decision-making Introduces innovative research outcomes, programs, algorithms and approaches to address challenges in understanding, creating and managing complex techno-socio-economic engineering systems Includes practical training on theoretical developments and the application of advanced methods for realistic electrical energy engineering problems*

*This book provides an overview of distributed control and distributed optimization theory, followed by specific details on industrial applications to smart grid systems. It discusses the fundamental analysis and design schemes for developing actual working smart grids and covers all aspects concerning the conventional and nonconventional methods of their use. Hybrid Intelligence for Smart Grid Systems provides an overview of a smart grid, along with its needs, benefits, challenges, and existing structure and describes the inverter topologies adopted for integrating renewable power, and provides an overview of its needs, benefits, challenges, and possible future technologies. This pioneering book is a must-read for researchers, engineering professionals, and students, giving them the tools needed to move from the concept of a smart grid to its actual design and implementation. Moreover, it will enable regulators, policymakers, and energy executives to understand the future of energy delivery systems towards safe, economical, high-quality power delivery in a dynamic and demanding environment.*

*The GridThe Decision-making Tool for Every Business (Including Yours)Random House*

*This book provides an analysis on the impact of culture on crisis management, exploring how different cultural types are reflected in crisis-related decision making patterns. Providing an interdisciplinary and international perspective with a rich research and practical outlook, this work is an important contribution to the field of crisis management and decision making. Offering essential understanding to how countries, organizations, groups and individuals prepare for and respond to crises thus combining research across several disciplines, offering theoretical development, empirical testing and reporting on the testing of a large number of hypotheses across several frameworks. The novelty of this book lies in its presentation of the quantitative testing of the relationship between cultural theory and crisis management, drawing on data from cases that cross continents and crises types. The book also includes a review of cases from South Korea and suggests a number of ways in which practitioners at various levels of government can prepare their organizations to cope better with the introduction of cultural bias into the decision making process. Those with an interest in risk management, disaster management and crisis management will value this pioneering work as it reveals the influence of cultural bias in decision making processes. This work offers important insights for practice as well as for theory-building, scholars and practitioners of public administration, management, political, and international relations, organizational, social and cultural psychology, amongst others, will all gain from reading this work.*

Noise

Achieving evidence-based patient choice

Optimal Planning of Smart Grid With Renewable Energy Resources

The Question That Will Revolutionize How You Make Decisions

Going Off The Grid

Crisis-Related Decision-Making and the Influence of Culture on the Behavior of Decision Makers

101 Ways to Survive

The aim of this book is to quickly empower you to make better decisions by giving you step-by-step explanations of the best techniques. We always make decisions under uncertainty and pressure, especially in business. We need faster and better decisions to cope, but we don't have the time to learn how to make them well. That is where I come in. I wrote this book to allow you to make better decisions without spending weeks studying theory and practice. THE INTRODUCTION gives you a snapshot of two decision-making biases, of the worst mistake you can do when making decision, and a lesson taken straight from philosophy. - Decision Biases (why your brain isn't always your friend in decisions) - The Worst Mistake in Decision-Making - A Lesson From Another Time THE FIRST CHAPTER looks at frameworks of reference, meaning how you can apply decision-making to achieve your goals, for example how and why some decisions are able to automatically give you a competitive advantage. - The OODA Loop - The Recognition-Primed Decision Model - GROW or the John Whitmore Model - The PDSA Cycle CHAPTERS 2 TO 5 look at separate phases of decision-making: understanding your context, understanding the problem, generating solutions and selecting one option out of many. 2 - CONTEXT Contexts can be very different - and there is no one size fits all approach, which is why this book provides you with five. - SWOT and PEST - TELOS - Porter's Five Forces - Causal Loops Diagrams 3 - PROBLEM ASSESSMENT Before making decisions, then, you need to work on finding out exactly what you are trying to solve. This chapter gives you 5 tools to do so: - Root Cause Analysis: Ishikawa's Diagramand the 5 Whys Technique - Pareto Analysis - Kipling Method (5W1H) - CATWOE 4 - GENERATING IDEAS In "pure" decision-making, little attention is given to this phase, as it belongs to a different field: creativity. This book includes two tools: - Zwicky's Box - SCAMPER 5 - WEIGHING ALTERNATIVES This book gives you six tools for this, each one with its specificities: - Weights and Factors: the Grid Analysis and the KT Matrix - The Paired Comparison Analysis - The Quantitative Strategic Planning Matrix - The Analytic Hierarchy Process - The Eisenhower Matrix CHAPTER 6 AND 7 look at group decisions, meaning whether it's a good idea to make decisions in a group and, if it is, how that group should make decisions. 6 - DO YOU NEED YOUR TEAM? You can either involve your team in decisions or exclude them. Often, managers are torn between these two options - you have three tools to help you though: - The Vroom-Yetton-Jago Model - The Hoy-Tarter Model - The Hersey-Blanchard Model 7 - GROUP TECHNIQUES To be used when making decisions in a group is necessary. - The Nominal Group Technique - The Delphi Method - Hartnett's Consensus-Oriented Decision-Making Model - The Stepladder Technique - DeBono's Six Thinking Hats - The Charette Procedure - RAPID CHAPTERS 8 AND 9 look at decisions in corporate strategy and analyse a decision's consequence 8 - CORPORATE STRATEGY These decision tools have all been developed for corporations, but they still hold value for smaller businesses. - The BCG Matrix - The Advantage Matrix - The GE Matrix - Blind Spot Analysis 9 - CONSEQUENCES In other words: "how can I make sure that the decision I made is the best one and will work in my specific situation?" Unfortunately nobody can answer this. Any decision method can only skew the odds of having made the right decision in your favour. That said, there are a few techniques you can apply. - Impact Assessment - Plus-Minus-Interesting - Decision Trees - Cost-Benefit Analysis - Futures Wheel

Overall WINNER - CMI Management Book of the Year 2014 WINNER - Innovation & Entrepreneurship Category at the CMI Awards 2014 Create a great customer experience whoever you are. Customers are powerful. They have a loud voice, a wealth of choice and their expectations are higher than ever. This book covers ten principles you can use to make real world improvements to your customers' experiences, whatever your business does and whoever you are. For managers, leaders and those starting a new business, the book shows that making improvements customers will appreciate doesn't need to be complicated or cost a fortune.

Focuses on the nuances of ethical and legal standards across disciplines Completely revised and updated to reflect the new 2014 ACA Code of Ethics and current ethics codes in psychology, social work, and marriage and family therapy. This unparalleled text guides helping professionals in the use of ethical decision-making processes as the foundation for ethical approaches to counseling and psychotherapy. The book focuses on ethical and legal challenges and standards across multiple professions emphasizing counseling, and including the professions of psychology, social work, and marriage and family therapy. It not only identifies relevant ethical issues in clinical mental health, rehabilitation, group, school, addictions counseling, and career counseling, it also addresses couple and family therapy, clinical supervision, and forensics. The text illuminates the particular application of ethical standards within each specialty. The book features five new sections that clearly define how ethical standards are interpreted and applied: Privacy, Confidentiality, and Privileged Communication; Informed Consent; Roles and Relationships with Clients; Professional Responsibility; and Counselor Competency. Under the umbrella of each broad topic, the particular nuances of ethical standards within each specialty are analyzed to facilitate comparison across all specialties and settings. The text also addresses current issues in office and administrative practices, technology, and forensic practice that are crucial to school, clinical, and private practice settings. Compelling case studies illustrate the connection between ethical decision-making models and ethical practice. Learning objectives, a comprehensive review of scholarly literature, and a robust ancillary package for educators contribute to the fourth edition's value for use in upper-level undergraduate and graduate classrooms. New to the Fourth Edition: Comprehensive reorganization and reconceptualization of content Reflects new 2014 ACA Code of Ethics Includes five new chapters on Privacy, Confidentiality, and Privileged Communication; Informed Consent; Roles and Relationships with Clients; Professional Responsibility; and Counselor Competency. Emphasizes specialty practice organized by professional standards Facilitates comparison of standards across disciplines Addresses new issues in office, administrative, technology, and forensic practice Key Features: Delivers an unequaled overview of ethical decision-making in counseling and psychotherapy Defines how ethical standards are interpreted and applied in specialty practice Describes how to avoid, address, and solve serious ethical and legal dilemmas Includes learning objectives, case studies, and scholarly literature reviews Offers robust ancillary package with Instructor's Manual, Test Bank, and Power Point Slides

Understanding the recent developments in renewable energy is crucial for a range of fields in today's society. As environmental awareness and the need for a more sustainable future continues to grow, the uses of renewable energy, particularly in areas such as smart grid, must be considered and studied thoroughly to be implemented successfully and move society toward a more sustainable future. Optimal Planning of Smart Grid With Renewable Energy Resources offers a detailed guide to the new problems and opportunities for sustainable growth in engineering by focusing on modeling diverse problems occurring in science and engineering as well as novel effective theoretical methods and robust optimization theories, which can be used to analyze and solve multiple types of problems. Covering topics such as electric drives and energy systems, this publication is ideal for researchers, academicians, industry professionals, engineers, scholars, instructors, and students.

How to Decide

Specifications, Requirements, and Technologies

Shared Decision Making in Health Care

#### Alternative Power, Energy Storage, Low Voltage Appliances and Other Lifesaving Strategies for Self-Sufficient Living Renewable Energy Integration to the Grid

#### Decision-making Techniques for Smart Grid Energy Management A Probabilistic Perspective

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

*A collection of 100 one-page tips for making thoughtful, equitable, lasting group decisions for our communities, organizations, governments, families, and our planet. Each tip is a provocative meditation and the book as a whole is a complete toolkit. The book is based on Caroline Estes' simple premise that "We each have a piece of the truth and we make our best decisions when we put all our pieces together." Freshley is a Quaker and while this book is not spiritually rooted, much of it is inspired by the Quaker idea of consensus. -- Publisher's description.*

*"Three small groups of people trying to stay sane and survive in a world controlled by chaos"--Cover, p. [4].*

*This comprehensive reference text discusses uncertainty modeling of renewable energy resources and its steady state analysis. The text discusses challenges related to renewable energy integration to the grid, techniques to mitigate these challenges, problems associated with integration at transmission and distribution voltage level, and protection of power system with large renewable power integration. It covers important concepts including voltage issues in power networks, use of FACTS devices for reactive power management, stochastic optimization, robust optimization, and spatiotemporal dependence modeling. Key Features: Presents analysis and modeling of renewable generation uncertainty for planning and operation, beneficial for industry professionals and researchers. Discusses dependence modeling of multi-site renewable generations in detail. Covers probabilistic analysis, useful for data analysts. Discusses various aspects of renewable energy integration i.e. technical, economic, etc. Covers correlation factors, and methodologies are validated with case studies with various standard test systems. The text will be useful for graduate students and professionals in the fields of electrical engineering, electronics and communication engineering, renewable energy, and clean technologies.*

*Why some organisations consistently outperform others*

*The Great Mental Models: General Thinking Concepts*

*Smart Grid Standards*

*5 Steps to Breakthrough Performance in Your Organization*

*Decision Support Systems and Industrial IoT in Smart Grid, Factories, and Cities*

*Simple Tools for Making Better Choices*

*Game Design Essentials and the Art of Understanding Your Players*

Smart Energy Grid Engineering provides in-depth detail on the various important engineering challenges of smart energy grid design and operation by focusing on advanced methods and practices for designing different components and their integration within the grid. Governments around the world are investing heavily in smart energy grids to ensure optimum energy use and supply, enable better planning for outage responses and recovery, and facilitate the integration of heterogeneous technologies such as renewable energy systems, electrical vehicle networks, and smart homes around the grid. By looking at case studies and best practices that illustrate how to implement smart energy grid infrastructures and analyze the technical details involved in tackling emerging challenges, this valuable reference considers the important engineering aspects of design and implementation, energy generation, utilization and energy conservation, intelligent control and monitoring data analysis security, and asset integrity. Includes detailed support to integrate systems for smart grid infrastructures Features global case studies outlining design components and their integration within the grid Provides examples and best practices from industry that will assist in the migration to smart grids

An introduction to decision making under uncertainty from a computational perspective, covering both theory and applications ranging from speech recognition to airborne collision avoidance. Many important problems involve decision making under uncertainty—that is, choosing actions based on often imperfect observations, with unknown outcomes. Designers of automated decision support systems must take into account the various sources of uncertainty while balancing the multiple objectives of the system. This book provides an introduction to the challenges of decision making under uncertainty from a computational perspective. It presents both the theory behind decision making models and algorithms and a collection of example applications that range from speech recognition to aircraft collision avoidance. Focusing on two methods for designing decision agents, planning and reinforcement learning, the book covers probabilistic models, introducing Bayesian networks as a graphical model that captures probabilistic relationships between variables; utility theory as a framework for understanding optimal decision making under uncertainty; Markov decision processes as a method for modeling sequential problems; model uncertainty; state uncertainty; and cooperative decision making involving multiple interacting agents. A series of applications shows how the theoretical concepts can be applied to systems for attribute-based person search, speech applications, collision avoidance, and unmanned aircraft persistent surveillance. Decision Making Under Uncertainty unifies research from different communities using consistent notation, and is accessible to students and researchers across engineering disciplines who have some prior exposure to probability theory and calculus. It can be used as a text for advanced undergraduate and graduate students in fields including computer science, aerospace and electrical engineering, and management science. It will also be a valuable professional reference for researchers in a variety of disciplines.

Game designers today are expected to have an arsenal of multi-disciplinary skills at their disposal in the fields of art and design, computer programming, psychology, economics, composition, education, mythology—and the list goes on. How do you distill a vast universe down to a few salient points? Players Making Decisions brings together the wide range of topics that are most often taught in modern game design courses and focuses on the core concepts that will be useful for students for years to come. A common theme to many of these concepts is the art and craft of creating games in which players are engaged by making meaningful decisions. It is the decision to move right or left, to pass versus shoot, or to develop one ’ s own strategy that makes the game enjoyable to the player. As a game designer, you are never entirely certain of who your audience will be, but you can enter their world and offer a state of focus and concentration on a task that is intrinsically rewarding. This detailed and easy-to-follow guide to game design is for both digital and analog game designers alike and some of its features include: A clear introduction to the discipline of game design, how game development teams work, and the game development process Full details on prototyping and playtesting, from paper prototypes to intellectual property protection issues A detailed discussion of cognitive biases and human decision making as it pertains to games Thorough coverage of key game elements, with practical discussions of game mechanics, dynamics, and aesthetics Practical coverage of using simulation tools to decide the magic of game balance A full section on the game design business, and how to create a sustainable lifestyle within it

Over the past decade health care systems around the world have placed increasing importance on the relationship between patient choice and clinical decision-making. In the years since the publication of the second edition of Shared Decision Making in Health Care, there have been significant new developments in the field, most notably in the US where 'Obamacare' puts shared decision making (SDM) at the centre of the 2009 Affordable Care Act. This new edition explores shared decision making by examining, from practical and theoretical perspectives, what should comprise an effective decision-making process. It also looks at the benefits and potential difficulties that arise when patients and clinicians share health care decisions. Written by leading experts from around the world and utilizing high quality evidence, the book provides an up-to-date reference with real-word context to the topics discussed, and in-depth coverage of the practicalities of implementing and teaching SDM. The breadth of information in Shared Decision Making in Health Care makes it an essential resource for policy-makers and health care workers. As health care systems adapt to increasingly collaborative patient-clinician care frameworks, this will also prove a useful guide to SDM for clinicians of all disciplines.

Decision Support Systems

The Ten Principles Behind Great Customer Experiences

Players Making Decisions

Net Positive

Smart Grid (R)Evolution

'A stunning thriller ' Terry Hayes, author of I AM PILGRIM

The Smart Solution Book

A fully comprehensive introduction to smart grid standards and their applications for developers, consumers and service providers The critical role of standards for smart grid has already been realized by world-wide governments and industrial organizations. There are hundreds of standards for Smart Grid which have been developed in parallel by different organizations. It is therefore necessary to arrange those standards in such a way that it is easier for readers to easily understand and select a particular standard according to their requirements without going into the depth of each standard, which often spans from hundreds to thousands of pages. The book will allow people in the smart grid areas and in the related industries to easily understand the fundamental standards of smart grid, and quickly find the building-block standards they need from hundreds of standards for implementing a smart grid system. The authors highlight the most advanced works and efforts now under way to realize an integrated and interoperable smart grid, such as the “NIST Framework and Roadmap for Smart Grid Interoperability Standards Release 2.0”, the“ IEC Smart Grid Standardization Roadmap”, the ISO/IEC’s “Smart Grid Standards for Residential Customers”, the ZigBee/HomePlug’s “Smart Energy Profile Specification 2.0”, IEEE’s P2030 “Draft Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), and End-Use Applications and Loads”, and the latest joint research project results between the world’s two largest economies, US and China. The book enables readers to fully understand the latest achievements and ongoing technical works of smart grid standards, and assist industry utilities, vendors, academia, regulators, and other smart grid stakeholders in future decision making. The book begins with an overview of the smart grid, and introduces the opportunities in both developed and developing countries. It then examines the standards for power grid domain of the smart grid, including standards for blackout prevention and energy management, smart transmission, advanced distribution management and automation, smart substation automation, and condition monitoring. Communication and security standards as a whole are the backbone of smart grid and their standards, including those for wired and wireless communications, are then assessed. Finally the authors consider the standards and on-going work and efforts for interoperability and integration between different standards and networks, including the latest joint research effort between the world’s two largest economies, US and China. A fully comprehensive introduction to smart grid standards and their applications for developers, consumers and service providers Covers all up-to-date standards of smart grid, including the key standards from NIST, IEC, ISO ZigBee, IEEE, HomePlug, SAE, and other international and regional standardization organizations. The Appendix summarizes all of the standards mentioned in the book Presents standards for renewable energy and smart generation, covering wind energy, solar voltaic, fuel cells, pumped storage, distributed generation, and nuclear generation standards. Standards for other alternative sources of energy such as geothermal energy, and bioenergy are briefly introduced Introduces the standards for smart storage and plug-in electric vehicles, including standards for distributed energy resources (DER), electric storage, and E-mobility/plug-in vehicles The book is written in an accessible style, ideal as an introduction to the topic, yet contains sufficient detail and research to appeal to the more advanced and specialist reader.

You'll Never Make a Decision the Same Way Again Should I take this job? Buy this house? Marry this person? We ask questions every day about the choices we face. But are we asking the most important question of all? In Ask It, Andy Stanley identifies the one question that makes it easy to determine the answer to all other questions. You'll learn how to make decisions with confidence simply by applying the question that brings clarity to life's most challenging decisions.

The ultimate guide to creating, storing and utilizing lifesaving power in the most critical circumstances Batteries don't last forever. To successfully survive a long-term disaster, you'll need self-reliant, renewable electricity. This book teaches you how to: CREATE YOUR OWN POWER • Choose cost-efficient solar panels • Incorporate a micro-hydro system • Harness the wind with turbines MANAGE ENERGY STORAGE • Select durable battery banks • Rewire for energy efficiency • Control energy consumption LIVE COMFORTABLY ON LESS • Install a high-efficiency refrigerator and LEDs • Use a human-powered washing machine • Charge laptops and cell phones Written in an approachable, easy-to-understand style, Prepper's Total Grid Failure Handbook provides everything you need to survive long-term without grid power.

Through a blend of compelling exercises, illustrations, and stories, the bestselling author of Thinking in Bets will train you to combat your own biases, address your weaknesses, and help you become a better and more confident decision-maker. What do you do when you're faced with a big decision? If you're like most people, you probably make a pro and con list, spend a lot of time obsessing about decisions that didn't work out, get caught in analysis paralysis, endlessly seek other people's opinions to find just that little bit of extra information that might make you sure, and finally go with your gut. What if there was a better way to make quality decisions so you can think clearly, feel more confident, second-guess yourself less, and ultimately be more decisive and be more productive? Making good decisions doesn't have to be a series of endless guesswork.

Rather, it's a teachable skill that anyone can sharpen. In How to Decide, bestselling author Annie Duke and former professional poker player lays out a series of tools anyone can use to make better decisions. You'll learn:
• To identify and dismantle hidden biases.
• To extract the highest quality feedback from those whose advice you seek.
• To more accurately identify the influence of luck in the outcome of your decisions.
• When to decide fast, when to decide slow, and when to decide in advance.
• To make decisions that more effectively help you to realize your goals and live your values. Through interactive exercises and engaging thought experiments, this book helps you analyze key decisions you've made in the past and troubleshoot those you're making in the future. Whether you're picking investments, evaluating a job offer, or trying to figure out your romantic life, How to Decide is the key to happier outcomes and fewer regrets.

Ask It

The Role of Real-Time Decision-Making in Grid Resilience

Smart Energy Grid Engineering

Twelve by Twelve

The Development of the Energy Internet of Things in Energy Infrastructure

The Power of the 2 x 2 Matrix

Decide & Deliver

*"This reference book covers the latest innovations and trends within smart grid and microgrid development, detailing benefits, challenges, and opportunities, that will help readers to fully understand the current opportunities that smart grids and microgrids present around the world"--*

*A Financial Times Best Business Book of the Year Named one of 10 Best New Management Books for 2022 by Thinkers50 "An advocate of sustainable capitalism explains how it's done" — The Economist "Polman's new book with the sustainable business expert Andrew Winston...argues that it's profitable to do business with the goal of making the world better." — The New York Times Named as recommended reading by Fortune's CEO Daily "...Polman has been one of the most significant chief executives of his era and that his approach to business and its role in society has been both valuable and path-breaking." — Financial Times The ex-Unilever CEO who increased his shareholders' returns by 300% while ensuring the company ranked #1 in the world for sustainability for eleven years running has, for the first time, revealed how to do it. Teaming up with Andrew Winston, one of the world's most authoritative voices on corporate sustainability, Paul Polman shows business leaders how to take on humanity's greatest and most urgent challenges—climate change and inequality—and build a thriving business as a result. In this candid and straight-talking handbook, Polman and Winston reveal the secrets of Unilever's success and pull back the curtain on some of the world's most powerful c-suites. Net Positive boldly argues that the companies of the future will profit by fixing the world's problems, not creating them. Together the authors explode our most prevalent corporate myths: from the idea that business' only function is to maximise profits, to the naïve hope that Corporate Social Responsibility will save our species from disaster. These approaches, they argue, are destined for the graveyard. Instead, they show corporate leaders how to make their companies "Net Positive"—thriving by giving back more to the world than they take. Net Positive companies unleash innovation, build trust, attract the best people, thrill customers, and secure lasting success, all by helping create stronger, more inclusive societies and a healthier planet. Heal the world first, they argue, and you'll satisfy your investors as a result. With ambitious vision and compelling stories, Net Positive will teach you how to find the inner purpose and courage you need to embrace the only business model that will matter in the years ahead. You will learn how to lead others and unlock your company's soul, while setting and delivering big and aggressive goals, and taking responsibility for all of your company's impacts. You'll find out the secrets to partnering with others, including your competition and critics, to drive transformative change from which you will prosper. You'll build a company that serves your people, your customers, your communities, your shareholders—and your children and grandchildren will thank you for it. Is this win-win for business and humanity too good to be true? Don't believe it. The world's smartest CEOs are already taking their companies on the Net Positive journey and benefitting as a result. Will you be left behind? Join the movement at netpositive.world*

*Is city life fencing you in? Break free of the daily grind with off-the-grid solutions for a simpler, stress-free tomorrow. Are you overworked and overcrowded? Do you dream of dropping off the radar? Do you crave the peace of mind that only nature can provide? Fitness and military intelligence expert Gary Collins has helped thousands of people roam free with firsthand advice shared on his popular website. And now he's here to help you reclaim your independence. Going Off the Grid: The How-To Book of Simple Living and Happiness contains step-by-step instructions for creating your self-sustaining refuge in the untamed wild or the blacktop jungle. Through Collins' methods, you'll identify and purge unnecessary stressors from your everyday life. You'll also learn the basics of off-the-grid living from home construction to energy alternatives, from sewage disposal to internet access. In Going Off the Grid, you'll discover: How to downsize your current living conditions for a clutter-free future Techniques for simplifying your hectic schedule so you can enjoy life's simple pleasures How to find the ideal off-the-grid property that will meet your every need Common types of building techniques and materials for high energy efficiency and insulation Fun and informative stories detailing Collins' off-the-grid nomadic lifestyle and much, much more! Going Off the Grid is your must-have handbook for living outside the city limits. If you like DIY guides, practical expert advice, and bucking societal expectations, then you'll love Gary Collins' roadmap to a liberating lifestyle. Buy Going Off the Grid to plan your escape into a new world of possibilities today!*

\_\_\_\_\_
This ground-breaking book from award-winning author MATT WATKINSON reveals the fundamental, inseparable elements behind the success of every business. The Grid provides the mental scaffolding to help you:
· Evaluate and refine product and service ideas
· Reduce risk by considering the broader impact of strategic decisions
· Identify the root causes of business challenges
· Anticipate the impact of changes in the market and turn them to your advantage
· Collaborate more effectively across teams
Combining practical guidance with real-world examples, The Grid will bring clarity and confidence to your business decision-making. \_\_\_\_\_
The Grid provides you with a simple way to look at the complex system which is your business. With the possible exception of Warren Buffett, everyone needs to read this book.' RORY SUTHERLAND, VICE CHAIRMAN, OGLIVY GROUP
The Grid provides a systematic framework for looking at virtually all the critical aspects of your business, and maybe more valuable, at how each affects the others. It'll be a rare reader who doesn't come away with fresh, useful insights into his or her enterprise.' WALTER KEICHEL III, author of The Lords of Strategy
'Matt Watkinson distils strategic know-how into nine ingenious perspectives and, with the use of clever examples, shows us how to apply this technique of thinking to any business problem or market opportunity.' DR JULES GODDARD, author of Uncommon Sense, Common Nonsense
The Grid presents a unique, joined up approach to decision-making, revealing both the holistic nature of business and all the key elements a business must consider. I can safely say that if you only read one business book in your life it should be The Grid.' PHILIP ROWLEY, Chief Finance Officer, Sony Pictures Entertainment

*Ethics in Rehabilitation*

*Decision Making Under Uncertainty*

*A Flaw in Human Judgment*

*The How-To Book of Simple Living and Happiness*

*Grid Down Reality Bites*

*Decision Making Applications in Modern Power Systems*

*How to Make Better Decisions Under Uncertainty and Pressure*

THE MOST COMPREHENSIVE COLLECTION OF PROBLEM-SOLVING TOOLS, GAMES AND TECHNIQUES USED BY BRAINSTORMERS, GAMECHANGERS AND TRAILBLAZERS. As working life becomes more complex, we are increasingly faced with problems which may at first seem insoluble. The Smart Solution Book is your guide to solving these problems, whatever their size. The Smart Solution Book explains each tool in detail ☐ what it is, when and how to use it, its strengths and its limitations. The tools range from quick fixes, which can be used by someone working alone, to large scale solutions which can be used by groups of 100 and more. You can also use the tools separately or in combination with each other. ☐ Frame problems so they can be solved ☐ Find a solution to even the most intractable problem ☐ Enjoy the process of problem solving, whether alone or in collaboration with others ☐ Become more creative in your thinking so that, over time, solutions begin to present themselves The Smart Solution Book will change your way of thinking about business problems: apply the techniques and see the solutions unfold. ☐The essential guide for a novel problem solving situation. Effective, practical and very accessible. Highly recommended.☐ Chris Garthwaite, CEO CGA Consulting "There isn't a single individual or organisation that could fail to benefit from the many practical approaches to problem-solving in this book. Everyone should read it!☐ Andrew Hilton, Managing Director, Corporate Training Partnerships Ltd IF, Durrenmatt says 'What concerns everyone, can only be solved by everyone' - and David's book is the practical guide to getting everyone fully engaged with a creative technique to solve any of your challenges.☐ Peter Schwahn☐Uben, Partner, papilio ag, Zurich

INTELLIGENT RENEWABLE ENERGY SYSTEMS This collection of papers on artificial intelligence and other methods for improving renewable energy systems, written by industry experts, is a reflection of the state of the art, a must-have for engineers, maintenance personnel, students, and anyone else wanting to stay abreast with current energy systems concepts and technology. Renewable energy is one of the most important subjects being studied, researched, and advanced in today's world. From a macro level, like the stabilization of the entire world's economy, to the micro level, like how you are going to heat or cool your home tonight, energy, specifically renewable energy, is on the forefront of the discussion. This book illustrates modelling, simulation, design and control of renewable energy systems employed with recent artificial intelligence (AI) and optimization techniques for performance enhancement. Current renewable energy sources have less power conversion efficiency because of its intermittent and fluctuating behavior. Therefore, in this regard, the recent AI and optimization techniques are able to deal with data ambiguity, noise, imprecision, and nonlinear behavior of renewable

energy sources more efficiently compared to classical soft computing techniques. This book provides an extensive analysis of recent state of the art AI and optimization techniques applied to green energy systems. Subsequently, researchers, industry persons, undergraduate and graduate students involved in green energy will greatly benefit from this comprehensive volume, a must-have for any library. Audience Engineers, scientists, managers, researchers, students, and other professionals working in the field of renewable energy.

By studying the work of hundreds of the most original and effective business minds, the authors present a common architecture that illuminates exceptional analysis and creative performance. 2 x 2 Thinking is characterized by a fundamental appreciation for the dynamic and complex nature of business. The best strategists go out of their way to tackle dilemmas rather than merely solve problems. They use opposition, creative tension, iteration and transcendence to get to the heart of issues and involve critical others in finding the best solutions. The authors demonstrate how to apply the 2 x 2 approach to a wide range of important business challenges.

Rich in atmospheric details and rife with unexpected dangers[a] refreshingly diverse cast of characters possess strong, sympathetic and magnetic personalities, ensuring that readers will be engaged with each step of their journey. RT Book Reviews Cole adds a strong contender to the postapocalyptic romance genre with a smart, confident-African American heroine and a smart, sexy Korean hero in this first book in a trilogy. Library Journal No one expects the apocalypse. Arden Highmore was living your average postgrad life in Rochester, New York, when someone flipped the "off" switch on the world. No cell phones, no power, no running waterand no one knows why. All she and her roommate, John, know for sure is that they have to get out, stat. His family's cabin near the Canadian border seemed like the safest choice. It turns out isolation doesn't necessarily equal safety. When scavengers attack, it's John's ridiculously handsome brother, Gabriel, who comes to the rescue. He saves Arden's life, so he can't be all badbut he's also a controlling jerk who treats her like an idiot. Now their parents are missing and it seems John, Gabriel, their kid sister, Maggie, and Arden are the only people left alive who aren't bloodthirsty maniacs. No one knows whenor ifthe lights will come back on and, in the midst of all that, Arden and Gabriel are finding that there's a fine line indeed between love and hate. How long can they expect to last in this terrifying new world, be it together or apart? This book is approximately 69,000 words And don't miss the rest of the Off the Grid series: Signal Boost and Mixed

Signals are available now! Originally published in 2015

Using 2 x 2 Thinking to Solve Business Problems and Make Better Decisions

Integrating Artificial Intelligence Techniques and Optimization Algorithms

Effective Decision-Making

The Wisdom of Group Decisions

Uncommon Sense, Common Nonsense

Building a Clean, Resilient Grid

Internet of things (IoT) is an emerging research field that is rapidly becoming an important part of our everyday lives including home automation, smart buildings, smart things, and more. This is due to cheap, efficient, and wirelessly-enabled circuit boards that are enabling the functions of remote sensing/actuating, decentralization, autonomy, and other essential functions. Moreover, with the advancements in embedded artificial intelligence, these devices are becoming more self-aware and autonomous, hence making decisions themselves. Current research is devoted to the understanding of how decision support systems are integrated into industrial IoT. Decision Support Systems and Industrial IoT in Smart Grid, Factories, and Cities presents the internet of things and its place during the technological revolution, which is taking place now to bring us a better, sustainable, automated, and safer world. This book also covers the challenges being faced such as relations and implications of IoT with existing communication and networking technologies; applications like practical use-case scenarios from the real world including smart cities, buildings, and grids; and topics such as cyber security, user privacy, data ownership, and information handling related to IoT networks. Additionally, this book focuses on the future applications, trends, and potential benefits of this new discipline. This book is essential for electrical engineers, computer engineers, researchers in IoT, security, and smart cities, along with practitioners, researchers, academicians, and students interested in all aspects of industrial IoT and its applications.

The term 'smart grid' has become a catch-all phrase to represent the potential benefits of a revamped and more sophisticated electricity system that can fulfil several societal expectations related to enhanced energy efficiency and sustainability. Smart grid promises to enable improved energy management by utilities and by consumers, to provide the ability to integrate higher levels of variable renewable energy into the electric grid, to support the development of microgrids, and to engage citizens in energy management. However, it also comes with potential pitfalls, such as increased cybersecurity vulnerabilities and privacy risks. Although discussions about smart grid have been dominated by technical and economic dimensions, this book takes a sociotechnical systems perspective to explore critical questions shaping energy system transitions. It will be invaluable for advanced students, academic researchers, and energy professionals in a wide range of disciplines, including energy studies, energy policy, environmental science, sustainability science and environmental engineering.

"Coauthor of the first edition, Shirley P. Starling..."

The Grid

Prepper's Total Grid Failure Handbook

68 Tools for Brainstorming, Problem Solving and Decision Making

Radio Silence