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Systematic Innovation - John Terninko 1998-04-15 This exciting new book presents the Theory of Inventive Problem Solving (TRIZ), a process that will provoke a breakthrough in your thinking patterns and the way you approach problem solving. The pillar of TRIZ is that contradiction can be methodically resolved through the application of innovative solutions. The Three Premises of TRIZ: The ideal design is a goal, Contradictions help solve problems, The innovative process can be structured systematically. With Systematic Innovation you will learn how to stop seeing conflicts as insurmountable barriers and instead celebrate them as opportunities for improvement and refinement of the design process. You will learn how to eliminate the words "tradeoff" and "compromise" from your vocabulary. The ideal design will become an expectation, not just a dream. By practicing the methods presented in this book, you will increase innovation and radically improve design. Discover the "science" of creativity!

The Innovation Algorithm - Genrikh Saulovich Altshuller 1999 Genrich Altshuller's The Innovation Algorithm is a milestone in the development of the Theory of Inventive Problem Solving (TRIZ). It is the result of more than 20 years of research and analysis. Here, Altshuller details ARIZ, TRIZ's problem solving algorithm that can produce innovation and creativity of the highest order. Saturated with profound thoughts, insights, and convincing examples, this book is regarded by many as Altshuller's magnum opus, his
TRIZ - Systematic Innovation in Business & Management - Yeoh Teong San 2014-10-01 TRIZ (Theory of Inventive Problem Solving) is a powerful methodology which is able to improve a company's top-line and bottom-line. The top-line refers to a company's gross sales or revenues, whereas the bottom-line is a company's net earnings or net profits. The uniqueness of TRIZ is its ability to provide a structured and systematic approach, coupled with a suite of tools to enhance both top-line and bottom-line results. TRIZ can be used for creating new products to generate sales or making processes more efficient and effective to reduce operating costs and expenses. TRIZ also enhances management capabilities by transforming a good manager to a great manager by acquiring tools to recognize contradictions when they arise and solve them without compromise. In summary, TRIZ is a philosophy, process, and suite of tools. A total of 11 TRIZ tools (Function Analysis, Cause & Effect Chain Analysis, Perception Mapping, Ideality, S-curve, Trends of Engineering System Evolution, Trimming, Feature Transfer, Function Oriented Search, 9-Windows, and Engineering Contradiction) are discussed in detail. Numerous examples and case studies are used to illustrate TRIZ applications in accelerating the ability to predict product, process, and service trends; identify unique value propositions for new products or services; circumvent patents of competitors; and solve age-old or chronic problems in both business and management fields.

Hand-on systematic innovation: for business and management - Darrell Mann 2007

TRIZ - Systematic Innovation in Manufacturing - 2009

Global Innovation Science Handbook, Chapter 28 - Systematic Innovation - Donald A. Coates 2014-01-31 A chapter from the Global Innovation Science Handbook, a comprehensive guide to the science, art, tools, and deployment of innovation, brought together by two Editors of the prestigious International Journal of Innovation Science, with ground-breaking contributions from global innovation leaders in every type of industry.

Innovation on Demand - Victor Fey 2005-10-06 This book describes a revolutionary methodology for enhancing technological innovation called TRIZ. The TRIZ methodology is increasingly being adopted by leading corporations around the world to enhance their competitive position. The authors explain how the TRIZ methodology harnesses creative principles extracted from thousands of successful patented inventions to help you find better, more innovative, solutions to your own design problems. Whether you’re trying to make a better beer can, find a new way to package microchips or reduce the number of parts in a lawnmower engine, this book can help.

The Use of Creativity and Systematic Innovation within the Product Life Cycle - Verena Rumpf 2010-05-03 Bachelor Thesis from the year 2009 in the subject Business economics - Business Management, Corporate Governance, grade: Gut, Campus02 University of Applied Sciences Graz (Innovationsmanagement), language: English, abstract: The management of products is an essential requirement for successful organisations. Strategically coordinated activities for upgrading products, broadening of the range of goods by variants, developing follow-up models and enhanced products are creating the best premises to continually use resources of the organisation. These activities require profound studies of the market, potential competitors, new technologies and customer requests in order to create new ideas for enhancing the present products and to introduce innovative products. In most organisations unfortunately the systematic internal achievement of new ideas is neglected. The aim of this paper is to enable organisations to get new ways to generate ideas for future products, as well as suggestions for idea generation in order to carry out product variation, product differentiation or product diversification along the product life cycle. It also copes with emotional or organisational barriers within the creative process and team characteristics for creativity.
Innovation Management for Technical Products - Walter Eversheim
2008-09-11

New ideas for new products are not enough for creating successful markets: Product Innovation means to manage the whole chain from invention to new and best selling products in market. This innovation roadmap has to be carefully and systematically planned and procured. There are a lot of methods for creativity, market analysis, evaluation, technology forecast, and decision gates available within this book. These methods and tools are brought together and their scopes of application as well as their limitations are shown. The whole tool kit of methods and decision models like market studies, value engineering, TRIZ or portfolio analysis and others are linked together to the overall Aachen Innovation Model (AIM). This handbook is to be used as an innovation management guide as well as an information source for nearly all methods and tools in the field of innovation for technical products. The complete Innovation Road Map is supported by an interactive, multiple user software tool "EDEN" on an ontology basis. Thus the user has not only access to the collected know how of the past, but can also contribute to growth of expertise within his or her enterprise.

Creativity As an Exact Science - Altshuller 1984-01-16

Eco-Innovation and the Development of Business Models - Susana Garrido Azevedo 2014-06-06

Environmental challenges such as pollution, climate change, water and natural resources depletion and dwindling biodiversity are true threats to the survival of our civilization, forcing us to learn how to act now. Fortunately this is exactly what this book does: presenting real life cases, along with theory, methodologies and tools demonstrating how eco-innovation can support sustainable economic growth and save our planet for future generations. Following an introduction describing developments and directions of eco-innovation, Section One discusses Models and Frameworks Supporting Eco-Innovation, with chapters on search strategy for radical eco-innovation; and systematic eco-innovation with TRIZ Methodology. Section Two offers surveys and case studies showing eco-innovation in practice, including a sketch of the eco-innovative landscape in the Brazilian Cellulose, Paper and Paper Products Industry; efforts to eco-innovate among large Swedish companies; progress towards joint product-service business models and more. The third section surveys future directions and emerging trends, among them a new methodology for eco-friendly construction; the development of lightweight small inter-island ferries in Scandinavia and BioTRIZ; a win-win methodology for eco-innovation. The book explores eco-innovation as a framework for supporting the development of new business models which consider the entire business ecosystem, on the way to a sustainable world. Moreover, it explores the eco-innovation process in cross-national and cross-sector perspective.

Systematic Complex Problem Solving in the Age of Digitalization and Open Innovation - Denis Cavallucci 2020-10-09

This book constitutes the refereed proceedings of the 20th International TRIZ Future Conference on Automated Invention for Smart Industries, TFC 2020, held in Cluj-Napoca, Romania, in October 2020 and sponsored by IFIP WG 5.4. The conference was held virtually. The 34 full papers presented were carefully reviewed and selected from 91 submissions. They are organized in the following thematic sections: computing TRIZ; education and pedagogy; sustainable development; tools and techniques of TRIZ for enhancing design; TRIZ and system engineering; TRIZ and complexity; and cross-fertilization of TRIZ for innovation management.

New Opportunities for Innovation Breakthroughs for Developing Countries and Emerging Economies - Rachid Benmoussa 2019-10-03

This book constitutes the refereed proceedings of the 19th International TRIZ Future Conference on Automated Invention for Smart Industries, held in Marrakesh, Morocco, in October 2019 and sponsored by IFIP WG 5.4. The 41 full papers presented were carefully reviewed and selected from 72 submissions. They are organized in seven thematic sections: TRIZ improvement: theory, methods and tools; TRIZ and other innovation approaches; TRIZ applications in technical design; TRIZ applications in eco
design; TRIZ applications in software engineering; TRIZ applications in specific disciplinary fields; and TRIZ in teaching.

The Innovation Tools Handbook, Volume 3 - H. James Harrington
2016-09-19 This book focuses on the creative tools and techniques, decisions, activities, and practices that move ideas to realization generate business value. It has a unique leaning on learning and mastering the improvement tools for managing the investment in creating new opportunities for generating customer value. It includes the discipline of managing the creative tools, methods and processes involved in innovation. It can be used to develop both product and organizational innovation. This Handbook includes a set of tools that allow managers and engineers to cooperate with a common understanding of goals and processes.

Educational Research and Innovation Beyond Textbooks Digital Learning Resources as Systemic Innovation in the Nordic Countries - OECD 2009-11-09 This publication reviews and evaluates the process of systemic innovation in digital learning resources, assembling information on the knowledge bases and policy actors which impact each phase of this innovation process and the main factors which influence its success.

TRIZ for Engineers: Enabling Inventive Problem Solving - Karen Gadd 2011-02-11 TRIZ is a brilliant toolkit for nurturing engineering creativity and innovation. This accessible, colourful and practical guide has been developed from problem-solving workshops run by Oxford Creativity, one of the world's top TRIZ training organizations started by Gadd in 1998. Gadd has successfully introduced TRIZ to many major organisations such as Airbus, Sellafield Sites, Saint-Gobain, DCA, Doosan Babcock, Kraft, Qinetiq, Trelleborg, Rolls Royce and BAE Systems, working on diverse major projects including next generation submarines, chocolate packaging, nuclear clean-up, sustainability and cost reduction. Engineering companies are increasingly recognising and acting upon the need to encourage successful, practical and systematic innovation at every stage of the engineering process including product development and design. TRIZ enables greater clarity of thought and taps into the creativity innate in all of us, transforming random, ineffective brainstorming into targeted, audited, creative sessions focussed on the problem at hand and unlocking the engineers' knowledge and genius to identify all the relevant solutions. For good design engineers and technical directors across all industries, as well as students of engineering, entrepreneurship and innovation, TRIZ for Engineers will help unlock and realise the potential of TRIZ. The individual tools are straightforward, the problem-solving process is systematic and repeatable, and the results will speak for themselves. This highly innovative book: Satisfies the need for concise, clearly presented information together with practical advice on TRIZ and problem solving algorithms Employs explanatory techniques, processes and examples that have been used to train thousands of engineers to use TRIZ successfully Contains real, relevant and recent case studies from major blue chip companies Is illustrated throughout with specially commissioned full-colour cartoons that illustrate the various concepts and techniques and bring the theory to life Turns good engineers into great engineers.

Diffusion of Innovations in Health Service Organisations - Sir Trisha Greenhalgh 2008-04-15 This is a systematic review on how innovations in health service practice and organisation can be disseminated and implemented. This is an academic text, originally commissioned by the Department of Health from University College London and University of Surrey, using a variety of research methods. The results of the review are discussed in detail in separate chapters covering particular innovations and the relevant contexts. The book is intended as a resource for health care researchers and academics.

Innovation and Entrepreneurship - Peter Drucker 2014-09-15 How can management be developed to create the greatest wealth for society as a whole? This is the question Peter Drucker sets out to answer in Innovation and Entrepreneurship. A brilliant, mould-breaking attack on management orthodoxy it is one of Drucker’s most important books, offering an excellent overview of some of his main ideas. He argues that what defines an entrepreneur is their attitude to change: ‘the entrepreneur always searches for change, responds to it and exploits it as an opportunity’. To exploit
change, according to Drucker, is to innovate. Stressing the importance of low-tech entrepreneurship, the challenge of balancing technological possibilities with limited resources, and the organisation as a learning organism, he concludes with a vision of an entrepreneurial society where individuals increasingly take responsibility for their own learning and careers. With a new foreword by Joseph Macariello

Towards Sustainable Innovation-Sven Pastoors 2017-03-13 With sustainability having gained a lot of momentum over the last years and companies implementing strategies to create corporate sustainability, there are lots of opportunities for innovation. Thus, the two concepts of sustainability and innovation should not be considered separately - they are closely interlinked with one another. The main goal of sustainable innovation is to develop new products and technologies that have a positive impact on the company's triple-bottom-line. To meet this aim, they have to be ecologically and economically beneficial as well as socially balanced. In order to help companies to improve their sustainable innovation process practically, this book is structured into five possible phases of a sustainable innovation process: Awareness of a sustainability problem, Identification & Definition of the problem, Ideation & Evaluation of the solutions, Testing & Enrichment of the solutions, Implementation of the solutions & Green Marketing.

Inside the Box-Drew Boyd 2014-06-10 “This counterintuitive and powerfully effective approach to creativity demonstrates how every corporation and organization can develop an innovative culture. The traditional attitude toward creativity in the American business world is to ‘think outside the box’—to brainstorm without restraint in hopes of coming up with a breakthrough idea, often in moments of crisis. Sometimes it works, but it’s a problem-specific solution that does nothing to engender creative thinking more generally. 'Inside the Box' demonstrates Systematic Inventive Thinking (SIT), which systemizes creativity as part of the corporate culture.”--Provided by publisher.

R&D Management in the Knowledge Era-Tuğrul Daim 2019-06-24 This volume explores emerging models, methods and tools in the management of research and development (R&D) in the knowledge era, with a particular focus on the challenges of the emerging technologies. The contributions are organized in five parts. Part I, Managing Emerging Technologies, provides methods and tools to understand the challenges created by the emergence of new technologies. Part II, Technology and Engineering Management Tools and Policies, explores different technology and engineering tools, including topics such as product concept development, design, selection and adoption, using technology roadmaps and bibliometrics. Part III, Technological Innovation and Entrepreneurship, explores R&D, knowledge transfer and entrepreneurial education. Part IV, Commercialization of Technological Innovations, explores the development and application of the technology transfer process which allows managers to succeed in commercializing the outcomes of R&D projects. Part V, Managing the Engineering Enterprise, explores the effect economic decision-making, leadership styles, change management and quality management have on an organization’s ability to plan and execute initiatives and projects. Research and Development has always played a critical role in the engineering and technology focused industries. In an era of big data and smart applications, knowledge has become a key enabler for R&D. Managing R&D in the knowledge era requires use of key tools and methods. However, emerging technologies pose many challenges and cause uncertainties or discontinuities, which make the task of managing R&D even more difficult. This book will examine these challenges and provide tools and methods to overcome them. Exploring such industries as automotive, healthcare, business intelligence, energy and home appliances, this book is a valuable resource for academics, scholars, professionals and leaders in innovation, R&D, technology, and engineering management.

TRIZ. Theory of Inventive Problem Solving-Vladimir Petrov 2019-04-01 This introductory book describes the initial (first) level of studying the theory of inventive problem solving (TRIZ) from the series “TRIZ from A to Z,” and presents the most general methods for solving inventive problems and generating new ideas. Chapter 1 examines traditional technologies for problem solving, based on trial and error. Chapter 2 describes the general concept of TRIZ, while Chapter 3 explains the main notions of “system”
approaches, like system thinking, system and its hierarchy, system effect, emergency, synergetic effect and systematicity. In turn, Chapter 4 describes the notion of “ideality” and Chapter 5 addresses the notion of resources, their types, and methods for using them. Chapter 6 acquaints readers with one of the most important aspects of TRIZ: contradiction. Chapter 7 describes the inventive principles, while Chapter 8 includes descriptions of the systems of trends proposed by G. Altshuller and the author. In closing, the author makes recommendations on how to most effectively use TRIZ tools, on how readers can improve their knowledge, skills and habits concerning the use of TRIZ, and on how they can hone their inventive thinking skills. The book also features Appendices that include analyses of selected problems, a list of the main websites related to TRIZ, and lists of examples, problems, illustrations, tables and formulae.

**Progress in Intelligent Decision Science**-Tofigh Allahviranloo

**Engineering of Creativity**-Semyon D. Savransky 2000-08-29 Invention and innovation lie at the heart of problem solving in virtually every discipline, but they are not easy to come by. Divine inspiration aside, historically we have depended primarily on observation, brainstorming, and trial-and-error methods to develop the innovations that provide solutions. But these methods are neither efficient nor dependable enough for the high-quality, high-tech engineering solutions we need today. TRIZ is a unique and powerful, algorithmic approach to problem solving that demonstrated remarkable effectiveness in its native Russia, and whose popularity has now spread to organizations such as Ford, NASA, Motorola, Unisys, and Rockwell International. Until now, however, no comprehensive, comprehensible treatment, suitable for self-study or as a textbook, has been available in English. Engineering of Creativity provides a valuable opportunity to learn and apply the concepts and techniques of TRIZ to complex engineering problems. The author-a world-renowned TRIZ expert-covers every aspect of TRIZ, from the basic concepts to the latest research and developments. He provides step-by-step guidelines, case studies from a variety of engineering disciplines, and first-hand experience in using the methodology. Application of TRIZ can bring high-quality-even breakthrough-conceptual solutions and help remove technical obstacles. Mastering the contents of Engineering of Creativity will bring your career and your company a remarkable advantage: the ability to formulate the best possible solutions for technical systems problems and predict future developments.

**Harnessing Knowledge, Innovation and Competence in Engineering of Mission Critical Systems**-Ali G. Hessami 2020-03-04 This book explores the critical role of acquisition, application, enhancement, and management of knowledge and human competence in the context of the largely digital and data/information dominated modern world. Whilst humanity owes much of its achievements to the distinct capability to learn from observation, analyse data, gain insights, and perceive beyond original realities, the systematic treatment of knowledge as a core capability and driver of success has largely remained the forte of pedagogy. In an increasingly intertwined global community faced with existential challenges and risks, the significance of knowledge creation, innovation, and systematic understanding and treatment of human competence is likely to be humanity's greatest weapon against adversity. This book was conceived to inform the decision makers and practitioners about the best practice pertinent to many disciplines and sectors. The chapters fall into three broad categories to guide the readers to gain insight from generic fundamentals to discipline-specific case studies and of the latest practice in knowledge and competence management.

**Biomimetic Design Method for Innovation and Sustainability**-Yael Helfman Cohen 2016-07-01 Presenting a novel biomimetic design method for transferring design solutions from nature to technology, this book focuses on structure-function patterns in nature and advanced modeling tools derived from TRIZ, the theory of inventive problem-solving. The book includes an extensive literature review on biomimicry as an engine of both innovation and sustainability, and discusses in detail the biomimetic design process, current biomimetic design methods and tools. The structural biomimetic design method for innovation and sustainability put forward in this text encompasses (1) the research method and rationale used to develop and validate this new design method; (2) the suggested design algorithm and tools including the Find structure database, structure-
function patterns and ideality patterns; and (3) analyses of four case studies describing how to use the proposed method. This book offers an essential resource for designers who wish to use nature as a source of inspiration and knowledge, innovators and sustainability experts, and scientists and researchers, amongst others.

What Is Systemic Innovation?-Gerald Midgley 2017

Research and Practice on the Theory of Inventive Problem Solving (TRIZ)-Leonid Chechurin 2016-09-12 This book clarifies the common misconception that there are no systematic instruments to support ideation, heuristics and creativity. Using a collection of articles from professionals practicing the Theory of Inventive Problem Solving (TRIZ), this book presents an overview of current trends and enhancements within TRIZ in an international context, and shows its different roles in enhancing creativity for innovation in research and practice. Since its first introduction by Genrikh Saulovich Altshuller in 1956 in the USSR, the TRIZ method has been widely used by inventors, design engineers and has become a standard element of innovation support tools in many Fortune 500 companies. However, TRIZ has only recently entered the domain of scientific publications and discussion. This collection of articles is meant as a record of scientific discussion on TRIZ that reflects the most interesting talking points, research interests, results and expectations. Topics such as Creative and Inventive Design, Patent Mining, and Knowledge Harvesting are also covered in this book.

Transdisciplinary Perspectives on Complex Systems-Franz-Josef Kahlen 2016-08-16 This book presents an internationally comprehensive perspective into the field of complex systems. It explores the challenges of and approaches to complexity from a broad range of disciplines, including big data, health care, medicine, mathematics, mechanical and systems engineering, air traffic control and finance. The book's interdisciplinary character allows readers to identify transferable and mutually exclusive lessons learned among these disciplines and beyond. As such, it is well suited to the transfer of applications and methodologies between ostensibly incompatible disciplines. This book provides fresh perspectives on comparable issues of complexity from the top minds on systems thinking.

Lean Education: An Overview of Current Issues-Anabela Carvalho Alves 2016-11-01 This edited volume presents a structured approach to a new lean education curriculum, implemented for the education of engineers, managers, administrators as well as human resources developers. The authorship comprises professors and lecturers, trainers and practitioners who educate future professionals in Lean Thinking principles and tools. This edited book provides a platform for authors to share their efforts in building a Body of Knowledge (BoK) for Lean Education. The topical spectrum is state-of-the-art in this field, but the book also includes a glimpse into future developments. This is a highly informative and carefully presented book, providing valuable insight for scholars with an interest in Lean Education.

Introduction to Design Engineering-W. Ernst Eder 2010-04-14 Designing engineering products technical systems and/or transformation processes requires a range of information, know-how, experience, and engineering analysis, to find an optimal solution. Creativity and open-mindedness can be greatly assisted by systematic design engineering, which will ultimately lead to improved outcomes, documentatio

8 Steps To Innovation-No Author 2013-02-20 A guide to systematic, as opposed to incidental, ad-hoc innovation. Innovation need not only be jugaad. For the first time a book shows us how in India, innovation can be introduced in one's organization in a systematic, deliberate way. 8 Steps to Innovation explains how you can do this by building an idea pipeline in your organization, improving the velocity of ideas coming in, and implementing the ideas within the given constraints. All this is shown through nice, snappy examples, mostly homegrown Indian ones. Few books in the market talk about innovation in the Indian context with Indian examples as this one does.
Innovation and Entrepreneurship - Danny Samson 2015-10-29

Innovation and Entrepreneurship: Creating New Value covers all of the major aspects of innovation strategy and capabilities, including leadership of innovation, creativity, design led innovation, open innovation, management of the innovation portfolio and new product development processes. Ultimately, innovation is accomplished by people, and this book recognises the critical contribution of leadership and organisational culture to developing and promoting innovation behaviours. For startups and entrepreneurs, the book covers the practical, powerful tests that a new idea should be subjected to, as well as providing an overview of the entrepreneurship process. Another feature of the book is the detailed presentation of the practices common to highly innovative organisations that distinguishes them from low innovating organisations. Underpinned by research, this information is translated into an innovation audit tool that can be used by managers or students alike. Key Features Contains more than 25 new major case studies covering innovation and entrepreneurship from startups to large mainstream organisations, examples include Kogan, KeepCup, BHP Billiton, Swisse, CSL and Toray (Japan). Also includes three new case studies of crowdsourcing companies. Thought leadership boxes throughout include leading edge, practical insights from professionals New cutting edge issues in entrepreneurship, such as new business models and social entrepreneurship practices are reviewed and illustrated. Covers aspects of innovation in processes as well in a chapter focused on supply chain innovation.

Creative Action - Edward Matchett 1975

Tools for Innovation - Arthur B. Markman 2009-08-13

It is widely known that innovation is crucial to sustain success in business, government, and engineering. But capturing the effective means of fostering innovation remains elusive. How can organizations actively promote innovation, which arises from a complex combination of cognition and domain expertise? Researchers across an array of fields are studying innovation, with exciting new findings suggesting that science is beginning to understand how it can be cultivated. It is now more important than ever for seemingly distant fields to share conclusions and, in concert, translate them into viable applications. In this unique and exciting collaboration, engineers, cognitive scientists, psychologists, computer scientists, and marketers explore the practical methods that support innovation and creative design, from different ways of thinking and conceptualizing to computer-based tools. The authors present research on processes as well as on the evaluation of existing methods. Their lessons drawn are at the forefront of the interdisciplinary movement to use science to help organizations thrive.

Engineering for Profit from Waste VI - IMechE (Institution of Mechanical Engineers) 2002-03-15

Engineering for Profit from Waste VI brings together a collection of reviewed papers that highlight opportunities for new products, technologies, systems and operating techniques, and their implementation. This volume provides examples of current technologies, ongoing research and development, and feedback from case studies. Topics covered include: Incineration Pyrolysis Alternatives Materials recovery Organic processes This book provides an update in new legislation and regulations, alternative methods of waste management with emphasis on energy recovery, and current and competitive technologies.

Creative Problem Solving for Managers - Tony Proctor 2014-11-13

Stimulating and developing the creative potential of all members of an organization (not just those in the more traditionally creative functions such as design or research and development) is widely seen as contributing to performance and results. This textbook introduces ideas, skills and models to help students understanding how creative thinking can aid problem-solving. The latest edition of this well-regarded book brings the story up to date whilst retaining popular features such as case studies and case histories together with extensive diagrams, examples and thought-provoking questions. New to this edition are sections on thinking styles and types, creativity and its role in innovation, implementation, and software aids to creativity. This rounded textbook will continue to be an ideal resource for a range of courses and modules across the business school curriculum including problem-solving, strategic management, creativity and innovation management.
The Evolution of Useful Things - Henry Petroski 2010-12-01 How did the table fork acquire a fourth tine? What advantage does the Phillips-head screw have over its single-grooved predecessor? Why does the paper clip look the way it does? What makes Scotch tape Scotch? In this delightful book Henry, Petroski takes a microscopic look at artifacts that most of us count on but rarely contemplate, including such icons of the everyday as pins, Post-its, and fast-food "clamshell" containers. At the same time, he offers a convincing new theory of technological innovation as a response to the perceived failures of existing products—suggesting that irritation, and not necessity, is the mother of invention.

Ten Types of Innovation - Larry Keeley 2013-07-15 Innovation principles to bring about meaningful and sustainable growth in your organization Using a list of more than 2,000 successful innovations, including Cirque du Soleil, early IBM mainframes, the Ford Model-T, and many more, the authors applied a proprietary algorithm and determined ten meaningful groupings—the Ten Types of Innovation—that provided insight into innovation. The TenTypes of Innovation explores these insights to diagnose patterns of innovation within industries, to identify innovation opportunities, and to evaluate how firms are performing against competitors. The framework has proven to be one of the mostending and useful ways to start thinking about transformation. Details how you can use these innovation principles to bring about meaningful—and sustainable—growth within your organization Author Larry Keeley is a world-renowned speaker, innovation consultant, and president and co-founder of Doblin, the innovation practice of Monitor Group; BusinessWeek named Keeley one of seven Innovation Gurus who are changing the field The Ten Types of Innovation concept has influenced thousands of executives and companies around the world since its discovery in 1998. The Ten Types of Innovation is the first book explaining how to implement it.