

Michael A. Orloff

# Inventive Thinking through **TRIZ**

A Practical  
Guide

Second Edition



Springer

# Inventive Thinking Through Triz A Practical Introduction

**Norbert Kockmann**



## **Inventive Thinking Through Triz A Practical Introduction:**

*Inventive Thinking through TRIZ* Michael A. Orloff, 2006-10-07 A secure future has to be the goal and motivation of every attempt at progress and of all politics Engineers teachers and scientists can assume a part of their personal responsibility in such attempts We should all search for organizational and technical possibilities individually and with our fellow professionals that can help avoid technogenic and therefore sociogenic catastrophes When we consider the extremely short time for inventions and the practical application of essential ideas it is not enough to rely on the methods for finding new ideas that our wonderful yet so imperfect civilization has created Perhaps this civilization is sometimes so deficient because the methods that have shaped it are imperfect Who controls the development of humanity Can we really make a reliable prognosis about our best way into the future How can sociogenic geogenic and cosmic catastrophes be avoided How can we insure the progress and security of coming generations TRIZ teaches us how to make inventions TRIZ teaches us how to construct the future TRIZ changes your thinking i e all of civilization too Rational decisions about the problems above cannot be made today without the use of TRIZ

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**Modern TRIZ Modeling in Master Programs** Michael A. Orloff, 2020-01-18 The book is addressed to Master students senior students of universities professors working at Master Programs as well as researchers engineers and managers of all industries without restrictions Examples and illustrations of the book give a vivid impression of the spectrum of creative models of Modern TRIZ which can be opened in any design and managerial decisions The book is especially useful for students for performing TRIZ modeling and for inventing original ideas at Master Programs The book is indispensable for passing Master Programs led by the author at the MTRIZ Academy

**ABC-TRIZ** Michael A. Orloff, 2016-07-09 This textbook arms the reader with powerful techniques of Modern TRIZ self training and real problem solving It is designed as a simple and efficient step by step crash course in primary TRIZ models based on the author's methods of extraction and reinvention or retrieval of invention models

from any real life objects Special content addresses the psychological support of the person during problem solving and promotion of the new idea to realization The book introduces the so called Theory of Developing the Creative Personality TDCP initiated but not completed by Genrikh Altshuller father of TRIZ and TDCP The textbook continues to develop a simple standard model presentation of the problem solving process with a four step Meta Algorithm of Invention MAI T R I Z

*TRIZ in Latin America* Guillermo Cortes Robles,2023-03-14 This book describes the adoption process of TRIZ under challenging conditions and under serious limitations It presents the integration of TRIZ with other techniques to solve problems in the Latin America industry The chapters contain some industrial cases that explain the adoption process of TRIZ They also describe the restrictions or limits on the use and adoption of TRIZ This book describes a strategy to apply the TRIZ tools for product or service design Case studies from different universities and enterprises are presented to facilitate the assimilation of the TRIZ concepts and tools Modern TRIZ Michael A. Orloff,2012-01-14 This book is based on a unique

TRIZ basics remote learning technology designed by the author It contains more than 250 examples assignments and solutions and an in depth discussion of methodological recommendations on practical implementation of theoretical postulates It does not require any special preliminary training and can be used by anyone who wishes to master TRIZ basics independently The book is recommended for technical specialists regardless of the extent of their familiarity with TRIZ and for students in engineering Corrosion Policy Decision Making Reza Javaherdashti,2021-12-29 CORROSION POLICY DECISION MAKING Explore the science management economy ecology and engineering of corrosion management and prevention In Corrosion Policy Decision Making distinguished consultant and corrosion expert Dr Reza Javaherdashti delivers an insightful overview of the fundamental principles of corrosion with a strong focus on the applicability of corrosion theory to industrial practice The authors demonstrate various aspects of smart corrosion management and persuasively make the case that there is a real difference between corrosion management and corrosion knowledge management The book contains seven chapters that each focuses on one important aspect of corrosion and corrosion management Corrosion management is an issue that is not just corrosion science or corrosion engineering but rather a combination of both elements To cover this paradoxical aspect of corrosion management chapter 2 deals with some basic introductory concepts and principles of corrosion and coating painting an important corrosion protection method while chapter 3 explains the elements of smart corrosion management in detail Another important principle of smart corrosion management is to be able to study the cost of corrosion chapter 4 introduces important points in the economics involved in a smart corrosion management As indicated earlier corrosion engineering is also an integral part of corrosion management and thus chapter 5 looks at the engineering side of corrosion by detailing the example of Process Additives EMPA Chapter 6 for the first time looks at the possibility of using TRIZ algorithm of invention in corrosion management Finally chapter 7 presents the necessary elements for building a model that would explore the mutual interaction between corrosion and environment mainly by exploring the difference

between environmental impact and environmental effect Chapter 7 is also very important because the four models so far applied to estimate the cost of corrosion Uhlig Method Hoar Method I O method and LCC method are not capable of suggesting any clear model or a sensible way of exploring the elements necessary to explain the impact of indirect costs of corrosion the most important of which being environmental damages imposed by corrosion This book is ideal for engineers students and managers working or studying corrosion Corrosion Policy Decision Making is also an indispensable resource for professionals in the fields of upstream and downstream on shore off shore oil and gas transportation mining power generation as well as major sectors of other strategic industries

**The Future of Product Development** Frank-Lothar Krause, 2007-04-24 Product development is one of the most important drivers of innovation Methods procedures and systems evoke enable and support innovation The papers presented in this book show that answers can only be composed out of a variety of solutions where psychological economical and technical research results are taken into account The proceedings represent trends in Product Development concerning industrial users and vendors as well as scientific research aspects The following topics are covered Design Theory Product Design Requirements Collaborative Engineering Complex Design Mechatronics Reverse Engineering Virtual Prototyping CAE KBE and PLM

**Learning to Solve Complex Scientific Problems** David H. Jonassen, 2017-09-25 Problem solving is implicit in the very nature of all science and virtually all scientists are hired retained and rewarded for solving problems Although the need for skilled problem solvers has never been greater there is a growing disconnect between the need for problem solvers and the educational capacity to prepare them Learning to Solve Complex Scientific Problems is an immensely useful read offering the insights of cognitive scientists engineers and science educators who explain methods for helping students solve the complexities of everyday scientific problems Important features of this volume include discussions on how problems are represented by the problem solvers and how perception attention memory and various forms of reasoning impact the management of information and the search for solutions how academics have applied lessons from cognitive science to better prepare students to solve complex scientific problems gender issues in science and engineering classrooms and questions to guide future problem solving research The innovative methods explored in this practical volume will be of significant value to science and engineering educators and researchers as well as to instructional designers

**Micro Process Engineering** Norbert Kockmann, 2013-03-26 This edition of Micro Process Engineering was originally published in the successful series Advanced Micro Nanosystems Authors from leading industrial players and research institutions present a concise and didactical introduction to Micro Process Engineering the combination of microtechnology and process engineering into a most promising and powerful tool for revolutionizing chemical processes and industrial mass production of bulk materials fine chemicals pharmaceuticals and many other products The book takes the readers from the fundamentals of engineering methods transport processes and fluid dynamics to device conception simulation and modelling control interfaces and issues of modularity and compatibility

Fabrication strategies and techniques are examined next focused on the fabrication of suitable microcomponents from various materials such as metals polymers silicon ceramics and glass The book concludes with actual applications and operational aspects of micro process systems giving broad coverage to industrial efforts in America Europe and Asia as well as laboratory equipment and education

**Transport Phenomena in Micro Process Engineering** Norbert

Kockmann,2007-11-12 In this book the fundamentals of chemical engineering are presented aiming to applications in micro system technology microfluidics and transport processes within microstructures After a general overview on both disciplines and common areas recent projects are shortly presented The combination of different disciplines gives new opportunities in microfluidic devices and process intensification respectively Special features of the book are the state of the art in micro process engineering a detailed treatment of transport phenomena for engineers a design methodology from transport effects to economic considerations a detailed treatment of chemical reaction in continuous flow microstructured reactors an engineering methodology to treat complex processes The book addresses researchers and graduate students in the field of chemical engineering Microsystems engineering and chemistry

**Evolutionary Ideas** Sam Tatam,2022-05-10

When faced with new challenges it s easy to feel our solutions need to be equally unprecedented We think we need a revolution But what if this is a big mistake In Evolutionary Ideas Sam Tatam shows how behavioural science and evolutionary psychology can help us solve tomorrow s challenges not by divining something the world has never seen but by borrowing from yesterday s solutions often in the most unexpected ways Just as millions of years of evolution have helped craft the wing and dorsal fin thousands of engineers designers marketers and advertisers have toiled to solve many of the problems you face today Over time through intent design social learning and sheer luck we have found what works Armed with an enhanced ability to see these patterns in human innovation we can now systematically approach the creative process to develop more effective ideas more readily and rapidly In the same way Japanese engineers reduced bullet train noise by studying the evolved biology of the owl and kingfisher today we can see how Disney improved the queueing experience in the same way Houston airport made arrivals feel faster while making people walk further We ll learn how the chocolate at the bottom of a Cornetto ice cream can improve an Error 404 message and what a bowl of M Ms has in common with a canary in a coal mine These are Evolutionary Ideas Exploring five of the most critical challenges we face today we learn how to breed more effective solutions from those that have survived The result is a dynamic and exciting way of solving problems and supercharging creativity for anyone in any endeavour

**Introduction to Engineering Statistics and Lean Six Sigma** Theodore T. Allen,2018-12-06

This book provides an accessible one volume introduction to Lean Six Sigma and statistics in engineering for students and industry practitioners Lean production has long been regarded as critical to business success in many industries Over the last ten years instruction in Six Sigma has been linked more and more with learning about the elements of lean production Building on the success of the first and second editions this book expands substantially on major topics of increasing

relevance to organizations interested in Lean Six Sigma Each chapter includes summaries and review examples plus problems with their solutions As well as providing detailed definitions and case studies of all Six Sigma methods the book uniquely describes the relationship between operations research techniques and Lean Six Sigma Further this new edition features more introductory material on probability and inference and information about Deming s philosophy human factors engineering and the motivating potential score the material is tied more directly to the Certified Quality Engineer CQE exam New sections that explore motivation and change management which are critical subjects for achieving valuable results have also been added The book examines in detail Design For Six Sigma DFSS which is critical for many organizations seeking to deliver desirable products It covers reliability maintenance and product safety to fully span the CQE body of knowledge It also incorporates recently emerging formulations of DFSS from industry leaders and offers more introductory material on experiment design and includes practical experiments that will help improve students intuition and retention The emphasis on lean production combined with recent methods relating to DFSS makes this book a practical up to date resource for advanced students educators and practitioners

**Systematic Innovation Partnerships with Artificial Intelligence and Information Technology** Robert Nowak,Jerzy Chrzęszcz,Stelian Brad,2022-09-23 This book constitutes the refereed proceedings of the 22nd International TRIZ Future Conference on Automated Invention for Smart Industries TFC 2022 which took place in Warsaw Poland in September 2022 the event was sponsored by IFIP WG 5 4 The 39 full papers presented were carefully reviewed and selected from 43 submissions They are organized in the following thematic sections New perspectives of TRIZ AI in systematic innovation systematic innovations supporting IT and AI TRIZ applications TRIZ education and ecosystem

*Growth and Development of Computer Aided Innovation* Runhua Tan,Guozhong Cao,Noel Leon,2009-07-29 This volume constitutes the refereed proceedings of the Third IFIP WG 5 4 Working Conference on Computer Aided Innovation CAI 2009 held in Harbin China in August 2009 The papers deal with advanced approaches in education and training data mining text mining semantic Web optimization and innovation shape and topology generators design automation integration of CAI methods and tools into engineering innovation process and engineering information pipeline innovation in collaborative networks of enterprises professional virtual communities as well as engineering design

*Cyber-Physical Systems* Alla G. Kravets,Alexander A. Bolshakov,Maxim V. Shcherbakov,2021-04-13 This book offers ideas to help improve digital technologies and increase their efficiency during implementation and application for researchers and practitioners The outstanding position of the book among others is that it dwells with cyber physical systems progress and proposes ideas and finding around digital tools and technologies and their application A distinguished contribution is in presenting results on Digital Twins development and application enhancing approaches of communication and information transferring between cyber physical systems connected within the Internet of things platforms computer linguistic as a part of cyber physical systems intelligent cybersecurity and computer vision systems The target audience of this book also

includes practitioners and experts as well as state authorities and representatives of manufacturing and industry who are interested in creating and implementing of cyber physical systems in framework of digitalization projects      **Advances in Visual Informatics** Halimah Badioze Zaman, Peter Robinson, Alan F. Smeaton, Renato Lima De Oliveira, Bo Nørregaard Jørgensen, Timothy K. Shih, Rabiah Abdul Kadir, Ummul Hanan Mohamad, Mohammad Nazir Ahmad, 2023-10-19 This book constitutes the refereed proceedings of the 8th International Conference on Advances in Visual Informatics IVIC 2023 held in Selangor Malaysia in November 2023 The 51 full papers presented were carefully reviewed and selected from 101 submissions The conference focused on 6 tracks Modeling and Simulation Mixed Reality and HCI Systems Integration and IoT Cybersecurity Energy Informatics and Intelligent Data Analytics      New Advances in Mechanisms, Mechanical Transmissions and Robotics Ioan Doroftei, Erwin-Christian Lovasz, 2025-05-02 This book gathers the proceedings of the Joint International Conference of the XIV International Conference on Mechanisms and Mechanical Transmissions MTM and the XXVI International Conference on Robotics Robotics held in Ia i Romania on November 14 16 2024 It addresses the applications of mechanisms and transmissions in several modern technical fields such as mechatronics biomechanics machines micromachines robotics and apparatus In doing so it combines theoretical findings and experimental testing The book presents peer reviewed papers written by researchers specialized in mechanism analysis and synthesis dynamics of mechanisms and machines mechanical transmissions biomechanics precision mechanics mechatronics micromechanisms and microactuators computational and experimental methods CAD in mechanism and machine design mechanical design of robot architecture parallel robots mobile robots micro and nano robots sensors and actuators in robotics intelligent control systems biomedical engineering teleoperation haptics and virtual reality      **Integrated Product and Process Design and Development** Edward B. Magrab, Satyandra K. Gupta, F. Patrick McCluskey, Peter Sandborn, 2009-07-28 The second edition of a bestseller this book discusses an integrated product and process design that has been successfully used to conceptualize design and rapidly product competitively priced quality products It examines the overlapping interacting and iterative nature of the engineering aspects that impact the product realization process A detailed introduction to the creation of high quality products the new edition explores the role of innovation requirements engineering smart materials different rapid prototyping methods and life cycle cost determination to name just a few The book delineates proven methods that have been used successfully to create products      *Intelligent Technologies and Engineering Systems* Jengnan Juang, Yi-Cheng Huang, 2013-05-21 This book concentrates on intelligent technologies as it relates to engineering systems The book covers the following topics networking signal processing artificial intelligence control and software engineering intelligent electronic circuits and systems communications and materials and mechanical engineering The book is a collection of original papers that have been reviewed by technical editors These papers were presented at the International Conference on Intelligent Technologies and Engineering Systems held Dec 13 15 2012

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