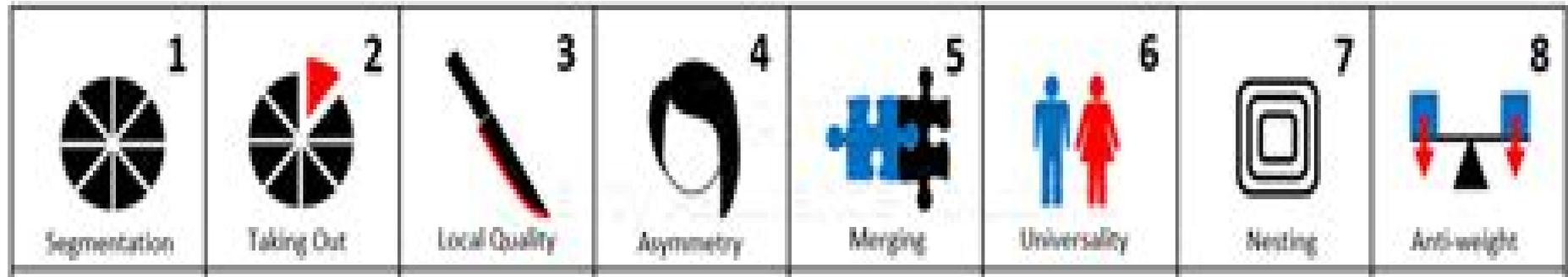


# TRIZ Inventive Principles - 1 through 8



## Segmentation

Transfers a complex task into several simpler tasks

## Taking Out

Eliminate the non-essential activities with no added value

## Local Quality

Single out a specific object. Then improve it

## Asymmetry

Asymmetric (rather than symmetric) solutions provide better functionality.

## Merging

Bringing together things which happen at the same time or in the same place

## Universality

An object can be eliminated by having another object perform the same function

## Nesting

Putting one thing inside another.

## Anti-weight

Identify a force that causes a negative shift, then apply a compensating force

# 40 Inventive Principles With Examples Triz

**Sabine Hotho**



#### **40 Inventive Principles With Examples Triz:**

Simplified TRIZ Kalevi Rantanen, David W. Conley, Ellen R. Domb, 2017-09-22 The revised and updated third edition of Simplified TRIZ New Problem Solving Applications for Technical and Business Professionals 3rd Edition continues to demystify TRIZ systematic innovation the internationally acclaimed problem solving technique It demonstrates how TRIZ can be used as a stand alone methodology or used to enhance Lean Six Sigma and other systems of organizational improvement Simplified TRIZ 3rd Edition once again strikes the perfect balance between overly complex and overly simplified making the effective application of TRIZ accessible to a wide audience In addition to numerous exercises worksheets and tables that further illustrate the concepts of this multinational method this indispensable volume Presents a new model for problem solving based on four TRIZ tenets contradictions resources ideality and patterns of evolution elucidated for better understanding and application Contains three new chapters Functional analysis Emphasizes a how to approach to functional analysis that strongly improves your ability to define the problem to be solved radically enhancing the value of the creative solutions that TRIZ makes possible Innovative solutions for difficult challenges Two detailed case studies sharing the experiences in solving challenging problems in innovative ways Systematic Innovation on the fly How to utilize individual innovation tools for quick innovative effect Multiple other new case studies throughout The addition of Lean in the chapter on integrated methodologies More links between chapters increasing the understanding of application More application examples demonstrating application techniques of professionals Clarifies how the patterns of evolution are used to generate both what if scenarios and real world forecasts with remarkable accuracy Illustrates how small and large companies government agencies and other groups of people are using TRIZ and achieving significant results and gives you step by step instructions on bringing TRIZ into your organization With the valuable tools explained within these pages you will be able to find innovative solutions to problems understand the natural evolution of systems and develop more and better ideas faster

**Global Innovation Science Handbook** Praveen Gupta, Brett E. Trusko, 2014-02-05 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A GROUNDBREAKING GUIDE TO THE ART SCIENCE TOOLS AND DEPLOYMENT OF INNOVATION It has never been more important to educate people and organizations how to out imagine out create and out innovate The insight and experiences captured by this book make an important contribution toward reaching this goal From the Foreword by Deborah Wince Smith President Council on Competitiveness Developed by the editors of the International Journal of Innovation Science and featuring contributions from more than 40 innovation experts and thought leaders Global Innovation Science Handbook presents a proven approach for understanding and implementing innovation in any industry This pioneering work is based on a defined body of knowledge that includes intent methodology tools and measurements It challenges the popular paradigm that learned innovation is impossible and lays out a systematic process for developing

innovation skills Each chapter can be independently read and utilized in the daily practice of innovation Real world case studies from financial government and education sectors illustrate the concepts discussed in this definitive resource Global Innovation Science Handbook covers Preparing for innovation establishing a framework and creating a culture for innovation Key innovation concepts such as creativity neuroscience biomimetics benchmarking and ethnography Creativity tools including Kano analysis storyboarding absence thinking Lotus Blossom SCAMPER and others Techniques essential to innovation science such as Six Thinking Hats mind mapping social networks market research and lead user analysis Innovation radar indices and other measurements Idea management the process of creating screening exploring and evaluating ideas to bring those most valuable from concept to reality Innovation methodologies including TRIZ Brinnovation crowdsourcing Eureka stage gate and others Deployment a life cycle approach involving inspiration strategy organization excellence culture measurement protection of intellectual property and launch Case studies featuring cutting edge technological innovations in finance government and education

**Cost Management in Plastics Processing** Robin Kent,2017-09-29 Cost Management in Plastics Processing Strategies Targets Techniques and Tools Fourth Edition makes readers think about current practices and how to go forward with effective cost management This is a practical workbook that provides a structured approach to reducing costs in plastics processing for all the major plastics shaping processes moulding extrusion forming as well as elsewhere in the company e g in factory services and non manufacturing areas Competition in all manufacturing sectors is increasing and there is continuous pressure to drive costs down and to increase cost management Good cost management improves profits and margins improves management control and opens the door to becoming a world class company The approach throughout this book looks rigorously at where costs are incurred and proposes projects and targets for cost reduction This book is designed to provide a well structured map broken down into simple tasks and achievable goals This book offers a structured approach to the techniques of cost management from how costs are calculated by accountants to the effective use of machines and labor to the minimization of waste It begins by looking at traditional methods of accounting and costing and whether these are helpful or accurate for project management Practical examples of cost management in plastics processing are included together with many useful flow charts and diagrams to illustrate the points under discussion Enables plastics processors to institute an effective cost management system going beyond simply trying to cut costs Provides a holistic perspective on cost management shining a light on areas on costs which may not have previously been considered or accounted for and proposing projects and targets for cost reduction Serves as a route map to help companies move toward improved margins and greater profitability

**Sustainable Design and Manufacturing 2016** Rossi Setchi,Robert J. Howlett,Ying Liu,Peter Theobald,2016-04-02 This volumes consists of 59 peer reviewed papers presented at the International Conference on Sustainable Design and Manufacturing SDM 16 held in Chania Crete Greece in April 2016 Leading edge research into sustainable design and manufacturing aims to enable

the manufacturing industry to grow by adopting more advanced technologies and at the same time improve its sustainability by reducing its environmental impact SDM 16 covers a wide range of topics from sustainable product design and service innovation sustainable process and technology for the manufacturing of sustainable products sustainable manufacturing systems and enterprises decision support for sustainability and the study of societal impact of sustainability including research for circular economy Application areas are wide and varied The book will provide an excellent overview of the latest research and development in the area of Sustainable Design and Manufacturing The Innovation Tools Handbook, Volume 3 H. James Harrington, Frank Voehl, 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 PICMET '01: Technology management in the knowledge era Dundar F. Kocaoglu, Timothy Roy Anderson, 2001 **Advanced Design and Manufacture IV** Dai Zhong Su, Kai Xue, Shi Fan Zhu, 2011-07-27 Volume is indexed by Thomson Reuters BCI WoS This special issue on Advanced Design and Manufacture is a prestigious collection of peer reviewed original contributions reflecting the state of the art emerging technologies recent successes and major research challenges to be found in this subject area The main topics covered include Engineering Product Industrial Design Manufacture and Production Sustainable Technology Eco Design Eco Production Renewable Energy Materials Science and Engineering Materials CAD CAM CAE Computer Simulation Web Internet Technologies Artificial Intelligence Mechanical Transmission Automation and Control Engineer Management and Industrial Engineering A comprehensive guide to the subject matter **Creativity, Competence and the International Dimension** Sabine Hotho, 2009 **Engineering Robust Designs with Six Sigma** John X. Wang, 2005 Dr Wang s work is of the highest caliber He has the ability to take very complex subjects and to present them very clearly He makes excellent use of examples throughout the book Donald W Sova Ph D Booz Allen Hamilton I have not seen a text that provides such broad coverage of the topic The foremost feature of this is competitive advantage This product should provide superior utility at a lower cost to both the consumer and to the producer Competitive advantage is rapidly becoming a necessity to stay in the game Jeffrey B Lynch Northrop Grumman Corporation Few if any other people have the experience in both quality engineering Six Sigma and in product engineering that could match Dr Wang s A great deal of the unique value of this book is the integration of ideas from these two disciplines Marvin L Roush Professor Emeritus University of Maryland at College Park Leverage Six Sigma to Transform Product Design and Development Today s customers demand unprecedented reliability efficiency flexibility and affordability To deliver products this robust quality manufacturing isn t enough Six Sigma processes must

begin in the earliest stages of design Now one of the field s leading experts offers the first complete blueprint for implementing Six Sigma product design John X Wang has transformed product design at companies ranging from Maytag and Visteon to General Electric In this book he illuminates the full spectrum of proven techniques from Voice of Customer VOC and Critical to Quality CTQ to Kano modeling You ll discover how Six Sigma can bridge critical gaps between research and development product and process and how it can help you quickly respond to any change from new suppliers to emerging customer requirements Topics covered include Starting out identifying projects organizing teams developing VOC models formulating CTQ characteristics Creating robust design concepts principles practical techniques and engineering parameters Kano modeling delighting customers and responding to their evolving requirements QFD building a house of quality that reflects both spoken and unspoken customer needs Failure Mode and Effect Analysis FMEA preventing failures mitigating risks Minimizing lifecycle cost through effective tolerance design Designing in long term reliability If you re an engineer manager or quality professional who s ready to drive breakthrough improvements in product design and development Dr John X Wang will guide you every step of the way to success

Digital Design and Manufacturing Technology Guo Zhong Chai,Cong Da Lu,Dong Hui Wen,2010-03-09 Selected peer reviewed papers from the conference on Digital Design and Manufacturing 26 28 April 2010 Hangzhou City Zhejiang Province

Design for Six Sigma for Service Kai Yang,2005-05-31 The primary objective of this new book is to provide a comprehensive reference for those who work in a service industry setting Unlike Design for Six Sigma a Roadmap for Product Development this new book will address the 5 leading issues in the service industry which are customer satisfaction cost reduction value improvement change management and process performance measurements

*Machine Design* ,1995 **Chemical Engineering Progress** ,2005 *CERN Courier* ,2015 **Advanced Design and Manufacture III** Dai Zhong Su,Qingbin Zhang,Shi Fan Zhu,2010-11-11 Selected peer reviewed papers from the 3rd International Conference on Advanced Design and Manufacture ADM 2010 8 10 September 2010 Nottingham UK

*Voice of the Customer : Capture and Analysis* Kai Yang,2007-10-24 Discover All the Advantages of Using Design for Six Sigma to Develop and Build Customer Value Based Products Voice of the Customer Capture and Analysis equips Six Sigma you with the skills needed to create and deploy surveys capture real customers need with ethnographic methods immediately analyze the results and coordinate and drive responsive actions Quality expert Kai Yang explains how to utilize the statistical methods of Design for Six Sigma to identify key customer needs and assess the cost of poor quality He then shows how to design robust products to meet those needs optimize product life cycles and accurately validate their findings Voice of the Customer Capture and Analysis features a wealth of information on Six Sigma and value creation customer survey design administration and analysis ethnographic research process management and Lean Product Development the deployment of customer value into products DFSS and value engineering This product design tool enables you to Minimize sources of response and measurement error Discern customer preferences Design VOC research to

minimize mistranslation Respond to analytical implications of VOC data Optimize design to decrease sensitivity of CTQs to process parameters With the help of Voice of the Customer Capture and Analysis you can now acquire the skills needed to truly understand a customer s wants and needs in order to develop and build optimal products Most Design for Six Sigma product development teams fall short of truly understanding their customers want and needs until it is too late Market research studies and reports simply do not provide sufficient guidance Today s Six Sigma practitioners need a comprehensive approach to designing and building customer value based products Voice of the Customer Capture and Analysis now gives you the ability to create and deploy surveys capture real voice of the customer in the field immediately analyze the results and coordinate and drive responsive actions This powerful product development tool demonstrates how to utilize the statistical methods of Design for Six Sigma to identify key customer needs assess the cost of poor quality design robust products to meet those needs optimize product life cycles and accurately validate their findings By using the expert methods strategies and guidelines presented in Voice of the Customer Capture and Analysis you can Harness VOC data to create value based products Employ Design for Six Sigma to optimize value creation Become proactive in gathering VOC information Improve customer survey design administration and analysis Accurately process VOC data Deploy customer value into products DFSS Perform effective quality function deployment QFD Get the most out of value engineering Capitalize on creative design methods Utilize process management and Lean Product Development Apply statistical techniques and Six Sigma metrics This wide ranging resource will give you the ability to minimize sources of response and measurement error clearly discern customer preferences design VOC research to minimize the perils of mistranslation respond to analytical implications of VOC data and optimize design to decrease sensitivity of CTQs to process parameters Comprehensive and authoritative Voice of the Customer Capture and Analysis provides you with all the tools you need to fully understand customer needs and wants\_ and then develop and build outstanding products that meet or exceed customer expectations

Mechatronics and Industrial Informatics Prasad Yarlagadda, Yun Hae Kim, 2013-06-13 Selected peer reviewed papers from the 2013 International Conference on Mechatronics and Industrial Informatics 1st ICMII 2013 March 13 14 2013 Guangzhou China *Wescon ... Conference Proceedings*, 1996 *Bringing New Technology to Market* Kathleen R. Allen, 2003 This book presents a comprehensive look at the issues related to the commercialization of intellectual property and contains three major themes that infuse all of the concepts presented value creation speed and entrepreneurship It enables readers to understand different business models and processes from mainstream types of businesses and teaches them how to successfully commercialize the intellectual property they develop The book focuses on management marketing product development and operations strategies that work in a high tech environment A four part organization covers The Foundations of Technology Commercialization Intellectual Property and Valuation Financial Strategies for Technology Start Ups and The Transition from R D to Operations For potential entrepreneurs and corporate venturers Usage of Axiomatic

Design Methodology Ali Alavizadeh, Sudershan K. Jetley, 2008

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