

1. Record Nr.	UNINA9910716571503321
Autore	Kofskey Milton G.
Titolo	Design and cold-air investigation of a turbine for a small low-cost turbofan engine / / by Milton G. Kofskey and William J. Nusbaum
Pubbl/distr/stampa	Washington, D.C. : , : National Aeronautics and Space Administration, , September 1972
Descrizione fisica	1 online resource (31 pages) : illustrations
Collana	NASA/TN ; ; D-6967
Soggetti	Gas turbines Axial flow Airplanes - Turbofan engines Axial flow compressors Low temperatures Gas-turbines - Testing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"September 1972."
Nota di bibliografia	Includes bibliographical references (page 27).

2. Record Nr.	UNINA9910809768303321
Titolo	Practitioner's guide for statistics and lean six sigma for process improvement // Mikel J. Harry [and four others]
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2010 ©2010
ISBN	1-118-21021-2
Descrizione fisica	1 online resource (1870 p.)
Classificazione	QP 321
Disciplina	658.4013
Soggetti	Process control - Statistical methods Six sigma (Quality control standard) Statistics - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title; copyright; Preface; 1: Principles of Six Sigma; 1.1 OVERVIEW; 1.2 SIX SIGMA ESSENTIALS; 1.3 QUALITY DEFINITION; 1.4 VALUE CREATION; 1.5 BUSINESS, OPERATIONS, PROCESS, AND INDIVIDUAL (BOPI) GOALS; 1.6 UNDERPINNING ECONOMICS; 1.7 PERFORMANCE METRICS; 1.8 PROCESS; 1.9 DESIGN COMPLEXITY; 1.10 NATURE AND PURPOSE OF SIX SIGMA; 1.11 NEEDS THAT UNDERLIE SIX SIGMA; 1.12 WHY FOCUSING ON THE CUSTOMER IS ESSENTIAL TO SIX SIGMA; 1.13 SUCCESS FACTORS; 1.14 SOFTWARE APPLICATIONS; GLOSSARY; REFERENCES; 2: Six Sigma Installation; 2.1 OVERVIEW; 2.2 SIX SIGMA LEADERSHIP-THE FUEL OF SIX SIGMA 2.3 DEPLOYMENT PLANNING2.4 APPLICATION PROJECTS; 2.5 DEPLOYMENT TIMELINE; 2.6 DESIGN FOR SIX SIGMA (DFSS) PRINCIPLES; 2.7 PROCESSING FOR SIX SIGMA (PFSS) PRINCIPLES; 2.8 MANAGING FOR SIX SIGMA (MFSS) PRINCIPLES; 2.9 PROJECT REVIEW; 2.10 SUMMARY; GLOSSARY; REFERENCES AND NOTES; 3: Lean Sigma Projects; 3.1 OVERVIEW; 3.2 INTRODUCTION; 3.3 PROJECT DESCRIPTION; 3.4 PROJECT GUIDELINES; 3.5 PROJECT SELECTION; 3.6 PROJECT SCOPE; 3.7 PROJECT LEADERSHIP; 3.8 PROJECT TEAMS; 3.9 PROJECT FINANCIALS; 3.10 PROJECT MANAGEMENT; 3.11 PROJECT PAYBACK; 3.12 PROJECT MILESTONES; 3.13 PROJECT ROADMAP

3.14 PROJECT CHARTERS (GENERAL)3.15 SIX SIGMA PROJECTS; Summary; 3.16 PROJECT SUMMARY; GLOSSARY; REFERENCES; 4: Lean Practices; 4.1 OVERVIEW; 4.2 INTRODUCTION; 4.3 THE IDEA OF LEAN THINKING; 4.4 THEORY OF CONSTRAINTS (TOC); 4.5 LEAN CONCEPT; 4.6 VALUE-ADDED VERSUS NON-VALUE-ADDED ACTIVITIES; 4.7 WHY COMPANIES THINK LEAN; 4.8 VISUAL CONTROLS-VISUAL FACTORY; 4.9 THE IDEA OF PULL (KANBAN); 4.10 5S-6S APPROACH; 4.11 THE IDEA OF PERFECTION (KAIZEN); 4.12 REPLICATION-TRANSLATE; 4.13 POKA-YOKE SYSTEM-MISTAKEPROOFING; 4.14 SMED SYSTEM; 4.15 7W þ 1 APPROACH-SEVEN PLUS ONE DEADLY WASTE(S)  
4.16 6M APPROACH4.17 SUMMARY; GLOSSARY; REFERENCES AND NOTES; 5: Value Stream Mapping; 5.1 OVERVIEW; 5.2 INTRODUCTION; 5.3 VALUE STREAM MAPPING; 5.4 FOCUSED BRAINSTORMING; 5.5 GRAPHICAL REPRESENTATION OF A PROCESS IN A VALUE STREAM MAP; 5.6 EFFECTIVE WORKING TIME; 5.7 CUSTOMER DEMAND; 5.8 TAKT TIME; 5.9 PITCH TIME; 5.10 QUEUING TIME; 5.11 CYCLE TIME; 5.12 TOTAL CYCLE TIME; 5.13 CALCULATION OF TOTAL LEAD TIME(S); 5.14 VALUE-ADDED PERCENTAGE AND SIX SIGMA LEVEL; 5.15 DRAWING THE CURRENT-VALUE-STREAM MAP; 5.16 DRAWING THE VALUE STREAM MAP; 5.17 WHAT MAKES A VALUE STREAM LEAN  
5.18 THE FUTURE VALUE STREAM MAP5.19 SUMMARY; GLOSSARY; REFERENCES AND NOTES; 6: Introductory Statistics and Data; 6.1 OVERVIEW; 6.2 INTRODUCTION; 6.3 GENETIC CODE OF STATISTICS; 6.4 POPULATIONS AND SAMPLES; 6.5 THE IDEA OF DATA; 6.6 NATURE OF DATA; 6.7 DATA COLLECTION; 6.8 THE IMPORTANCE OF DATA COLLECTION; 6.9 SAMPLING IN SIX SIGMA; 6.10 SOURCES OF DATA; 6.11 DATABASE; 6.12 SUMMARY; GLOSSARY; REFERENCES; 7: Quality Tools; 7.1 OVERVIEW; 7.2 INTRODUCTION; 7.3 NATURE OF SIX SIGMA VARIABLES; 7.4 QUALITY FUNCTION DEPLOYMENT (QFD); 7.5 SCALES OF MEASUREMENT; 7.6 DIAGNOSTIC TOOLS  
7.7 ANALYTICAL METHODS

---

#### Sommario/riassunto

This hands-on book presents a complete understanding of Six Sigma and Lean Six Sigma through data analysis and statistical concepts. In today's business world, Six Sigma, or Lean Six Sigma, is a crucial tool utilized by companies to improve customer satisfaction, increase profitability, and enhance productivity. Practitioner's Guide to Statistics and Lean Six Sigma for Process Improvements provides a balanced approach to quantitative and qualitative statistics using Six Sigma and Lean Six Sigma methodologies. Emphasizing applications and the implementation of data analyses as

---

3. Record Nr.	UNINA9910299407503321
Autore	Awange Joseph L
Titolo	Mathematical Geosciences : Hybrid Symbolic-Numeric Methods / / by Joseph L. Awange, Béla Paláncz, Robert H. Lewis, Lajos Völgyesi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-67371-8
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXVII, 596 p. 460 illus., 440 illus. in color.)
Disciplina	550.151
Soggetti	Geology Mathematical physics Environmental sciences Geographic information systems Atmospheric science Mathematical Applications in the Physical Sciences Math. Appl. in Environmental Science Geographical Information Systems/Cartography Atmospheric Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Solution of algebraic polynomial systems -- Homotopy solution of nonlinear systems -- Over and underdetermined systems -- Simulated annealing -- Genetic algorithm -- Particle swarm optimization -- Integer programming -- Multiobjective optimization -- Approximation with radial bases functions -- Support vector machines (SVM) -- Symbolic regression -- Quantile regression -- Robust regression -- Stochastic modeling -- Parallel computations.
Sommario/riassunto	This book showcases powerful new hybrid methods that combine numerical and symbolic algorithms. Hybrid algorithm research is currently one of the most promising directions in the context of geosciences mathematics and computer mathematics in general. One important topic addressed here with a broad range of applications is the solution of multivariate polynomial systems by means of resultants and Groebner bases. But that's barely the beginning, as the authors

proceed to discuss genetic algorithms, integer programming, symbolic regression, parallel computing, and many other topics. The book is strictly goal-oriented, focusing on the solution of fundamental problems in the geosciences, such as positioning and point cloud problems. As such, at no point does it discuss purely theoretical mathematics. "The book delivers hybrid symbolic-numeric solutions, which are a large and growing area at the boundary of mathematics and computer science." Dr. Daniel Li chtbau.

---