

BLEED

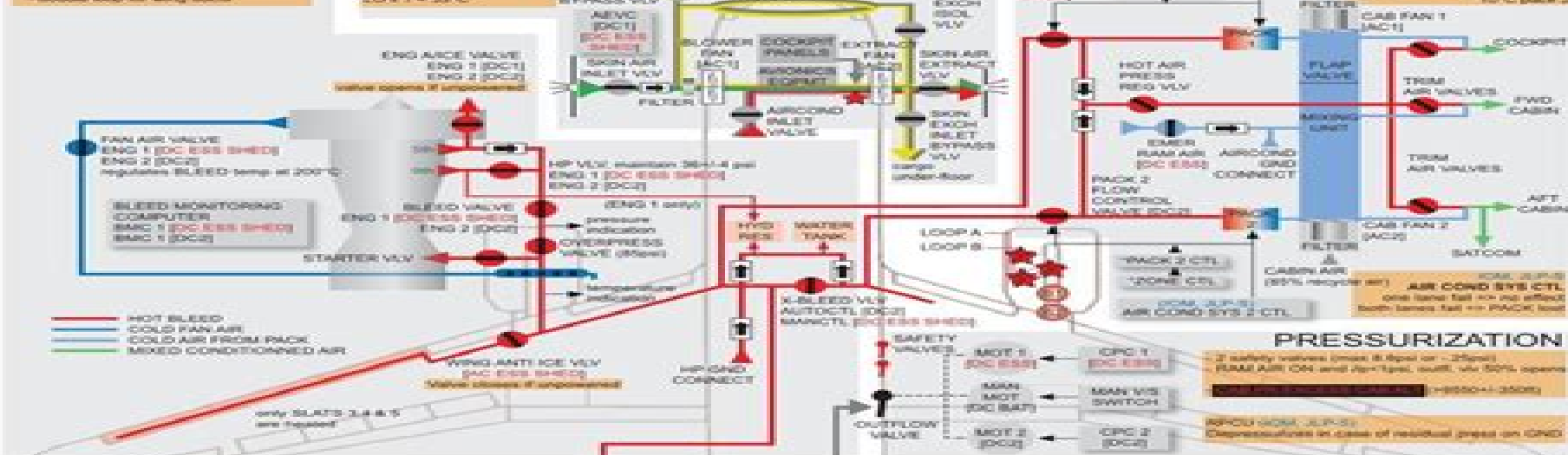
CAUTION, do not use HP GND air with APU bleed

Regulated pressure 45 +/- 5 psi
Leak detection
- single loop for APU and pylon ducts
- double loop for wing ducts

AVIONICS VENTILATION

CONFIGURATIONS:
CLOSED: on GND (max 45°C in FLT (max 52°C/35°C)
INTERMEDIATE: if (max 32°C/25°C) then EXTRACT VLV partially opens
- OPEN: on GND (max 45°C/35°C)
- SMOKE CONFIG

FAN SPD (NOM JLP-S)
H if T > 40°C
LO if T > 35°C



APU

LIMITATIONS:
RPM max: 95%, max 102% (auto shut down)
running EGT max 660°C (Basic) or 750-742
start EGT max 900°C > 25000R
start EGT max 950°C > 25000R
LOW OIL LEVEL: < 15 lbs APU max
start cycles: 5, then 5, then 5, 60min
Envelope:
START with AC power up to 30000R
START with EMER BLEED start up to 25000R
BLEED ON 2 packs max 15000R, 1 pack max 20000R
BLEED ON for engine start max 20000R
BLEED for WING ANTI ICE not permitted
APU FUEL FLOW ~ 130 kg/hr



FUEL A319/A320

TOTAL TANKS CAPACITY (den 0.785kg/l)
18728kg / 19004kg (JLP-S)

OUTER to INNER TRANSFER
- XFR valves open when (POWER) lower ~ 750kg
- F/O only with Outer TK full
- Automatic XFR after landing
(in event, master REFUEL panel PWR ON)
or transfer via DEFUEL/XFR valve

FOR CH1 [DC ESS SHED] CH2 [DC]

OUTER TANKS 2 x 5534kg

REFUEL VALVE (DC) refueling on batteries with (ignoring)

REFUEL COUPLING

FUEL IMBALANCE A319/A320

WING TK Full, max 1500kg
INNER TK 4300kg, max 1500kg
INNER TK 2350kg, max 2350kg
no limitations below 2350kg

OUTER TK max 500kg, if OUTER+INNER same
or (WING) of empty OUTER equal or higher (up to 30 of opposite INNER)

refueling / defueling lines
bleeding lines

LP VALVE MOT 1 [DC] MOT 2 [DC]

INNER TANKS 2 x 5435kg* 2 x 5573kg (JLP-S)

PUMP LH1 [AC1] [AC2] [DC1] [DC2]

PUMP LH2 [AC1] [AC2] [DC1] [DC2]

PUMP CTRG [AC1] [AC2] [DC1] [DC2]

TANK PUMPS

FUEL TEMPERATURE

JET A1 max -43°C max +54°C

JET A max -36°C max +54°C

WING PUMPS

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

CENTER TANK 5437kg

X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VLV

A320 A321

CTR XFR VLV [DC1] [DC2]

WING PUMPS

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

REFUEL VALVE

REFUEL COUPLING

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

CENTER TANK 5437kg

X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VLV

A320 A321

CTR XFR VLV [DC1] [DC2]

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VENT TANK ~50kg

REFUEL VALVE

REFUEL COUPLING

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

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X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VLV

A320 A321

CTR XFR VLV [DC1] [DC2]

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WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

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WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

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CENTER TANK 5437kg

X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VLV

A320 A321

CTR XFR VLV [DC1] [DC2]

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WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

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REFUEL COUPLING

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

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X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VLV

A320 A321

CTR XFR VLV [DC1] [DC2]

WING PUMPS

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

REFUEL VALVE

REFUEL COUPLING

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

CAUTION, do not use GND AIRCOND air with air from packs simultaneously

PACK 1 FLOW CONTROL VALVE [DC ESS SHED] PACK 1 CTL

PACK 2 FLOW CONTROL VALVE [DC ESS SHED] PACK 2 CTL

PACK 1 AIR COND SYS 1 CTL

PACK 2 AIR COND SYS 2 CTL

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AIRCOND

PACK 1 FLOW CONTROL VALVE [DC ESS SHED] PACK 1 CTL

PACK 2 FLOW CONTROL VALVE [DC ESS SHED] PACK 2 CTL

PACK 1 AIR COND SYS 1 CTL

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PRESSURIZATION

2 safety valves (press 8.5psi or ~25psi)
- FAN AIR ON and JLP-1, outfl. vlv 50% opens
- PRESSURIZATION ~ 8500ft ~ 3500ft

APU (NOM JLP-S)
Depressurization in case of residual press on GND

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FIRE PROTECTION & CARGO VENT

★ SMOKE DETECTORS
★ FIRE DETECTORS
★ FIREX BOTTLES

★ SMOKE DETECTORS
★ FIRE DETECTORS
★ FIREX BOTTLES

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ENGINE

A319: CFM56-5B42 237000RPM
A320: CFM56-5B42 270000RPM
A321: CFM56-5B42 270000RPM
N1: 100% = 5000 rpm
N2: 100% = 14400 rpm
TOGA EGT max 950°C / 1700°F
ENG Cool-down time 2' 0" for N2
START (idle) 45s, 2' 00" then 15'

A319: CFM56-5B42 237000RPM
A320: CFM56-5B42 270000RPM
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A321: CFM56-5B42 270000RPM
N1: 100% = 5000 rpm
N2: 100% = 14400 rpm
TOGA EGT max 9

User Guide Airbus

Rosina Ehmann



User Guide Airbus:

Handbook of Space Resources Viorel Badescu, Kris Zacny, Yoseph Bar-Cohen, 2023-04-27 Earth has limited material and energy resources while these resources are virtually unlimited in space. It is only a matter of time before planetary resources are mined and used in situ to sustain human and robotic exploration or returned to Earth for commercial gain. This book covers a number of aspects related to space resources. In particular, subjects related to mission concepts, exploration approaches, mining and extraction technologies, commercial potential, and regulatory aspects of space resources are covered in detail. This book is therefore a good resource for readers who seek background and deeper understanding of space resources related activities.

Basics of Aerothermodynamics Ernst Heinrich Hirschel, 2015-01-06 This successful book gives an introduction to the basics of aerothermodynamics as applied in particular to winged re-entry vehicles and airbreathing hypersonic cruise and acceleration vehicles. The book gives a review of the issues of transport of momentum, energy, and mass, real gas effects, as well as inviscid and viscous flow phenomena. In this second revised edition, the chapters with the classical topics of aerothermodynamics more or less were left untouched. The access to some single topics of practical interest was improved. Auxiliary chapters were put into an appendix. The recent successful flights of the X-43A and the X-51A indicate that the dawn of sustained airbreathing hypersonic flight now has arrived. This proves that the original approach of the book to put emphasis on viscous effects and the aerothermodynamics of radiation-cooled vehicle surfaces was timely. This second revised edition even more accentuates these topics. A new additional chapter treats examples of viscous thermal surface effects. Partly only very recently obtained experimental and numerical results show the complexity of such phenomena: dependence of boundary layer stability, skin friction, boundary layer thicknesses, and separation on the thermal state of the surface and their importance for airbreathing hypersonic flight vehicles but also for any other kind of hypersonic vehicle.

Three-Dimensional Attached Viscous Flow Ernst Heinrich Hirschel, Jean Cousteix, Wilhelm Kordulla, 2013-10-29 Viscous flow is treated usually in the frame of boundary layer theory and as two-dimensional flow. Books on boundary layers give at most the describing equations for three-dimensional boundary layers and solutions often only for some special cases. This book provides basic principles and theoretical foundations regarding three-dimensional attached viscous flow. Emphasis is put on general three-dimensional attached viscous flows and not on three-dimensional boundary layers. This wider scope is necessary in view of the theoretical and practical problems to be mastered in practice. The topics are weak, strong, and global interaction, the locality principle, properties of three-dimensional viscous flow, thermal surface effects, characteristic properties, wall compatibility conditions, connections between inviscid and viscous flow, flow topology, quasi-one and two-dimensional flows, laminar-turbulent transition, and turbulence. Though the primary flight speed range is that of civil air transport vehicles, flows past other flying vehicles up to hypersonic speeds are also considered. Emphasis is put on general three-dimensional attached viscous flows and not on three-dimensional boundary layers as this wider scope is necessary in

view of the theoretical and practical problems that have to be overcome in practice The specific topics covered include weak and strong interaction the locality principle properties of three dimensional viscous flows thermal surface effects characteristic properties wall compatibility conditions connections between inviscid and viscous flows flow topology quasi one and two dimensional flows laminar turbulent transition and turbulence Detailed discussions of examples illustrate these topics and the relevant phenomena encountered in three dimensional viscous flows The full governing equations reference temperature relations for qualitative considerations and estimations of flow properties and coordinates for fuselages and wings are also provided Sample problems with solutions allow readers to test their understanding **Modelling and**

Simulation for Autonomous Systems Jan Hodicky, 2015-08-08 This book constitutes the thoroughly refereed post workshop proceedings of the Second International Workshop on Modelling and Simulation for Autonomous Systems MESAS 2015 held in Prague Czech Republic in April 2015 The 18 revised full papers included in the volume were carefully reviewed and selected from 33 submissions They are organized in the following topical sections state of the art and future of AS MS experimental frameworks for AS methods and algorithms for AS Illustrated Guide to Cargo Aircraft and Air Freight Containers (ULDs) ,

Handbook of Aerospace Electromagnetic Compatibility Reinaldo J. Perez, 2018-11-30 A comprehensive resource that explores electromagnetic compatibility EMC for aerospace systems Handbook of Aerospace Electromagnetic Compatibility is a groundbreaking book on EMC for aerospace systems that addresses both aircraft and space vehicles With contributions from an international panel of aerospace EMC experts this important text deals with the testing of spacecraft components and subsystems analysis of crosstalk and field coupling aircraft communication systems and much more The text also includes information on lightning effects and testing as well as guidance on design principles and techniques for lightning protection The book offers an introduction to E3 models and techniques in aerospace systems and explores EMP effects on and technology for aerospace systems Filled with the most up to date information illustrative examples descriptive figures and helpful scenarios Handbook of Aerospace Electromagnetic Compatibility is designed to be a practical information source This vital guide to electromagnetic compatibility Provides information on a range of topics including grounding coupling test procedures standards and requirements Offers discussions on standards for aerospace applications Addresses aerospace EMC through the use of testing and theoretical approaches Written for EMC engineers and practitioners Handbook of Aerospace Electromagnetic Compatibility is a critical text for understanding EMC for aerospace systems *Image Processing and GIS for Remote Sensing* Jian Guo Liu, Philippa J. Mason, 2016-03-21 Following the

successful publication of the 1st edition in 2009 the 2nd edition maintains its aim to provide an application driven package of essential techniques in image processing and GIS together with case studies for demonstration and guidance in remote sensing applications The book therefore has a 3 in 1 structure which pinpoints the intersection between these three individual disciplines and successfully draws them together in a balanced and comprehensive manner The book conveys in

depth knowledge of image processing and GIS techniques in an accessible and comprehensive manner with clear explanations and conceptual illustrations used throughout to enhance student learning The understanding of key concepts is always emphasised with minimal assumption of prior mathematical experience The book is heavily based on the authors own research Many of the author designed image processing techniques are popular around the world For instance the SFIM technique has long been adopted by ASTRIUM for mass production of their standard Pan sharpen imagery data The new edition also includes a completely new chapter on subpixel technology and new case studies based on their recent research

Introduction to Synthetic Aperture Radar Using Python and MATLAB® Lee Andrew (Andy) Harrison,2022-08-31 This comprehensive introduction to synthetic aperture radar SAR is a practical guide to the analysis simulation and design of SAR systems The video eBook uses constructive examples and real world collected datasets to demonstrate image registration and autofocus methods Both two and three dimensional image formation algorithms are presented Hardware software and environmental parameters are used to estimate performance limits for SAR operation and utilization A set of Python and MATLAB software tools is included and provides you with an effective mechanism to analyze and predict SAR performance for various imaging scenarios and applications Examples which use the software tools are provided at the end of each chapter to reinforce critical SAR imaging topics such as clutter to noise ratio mapping rate spatial resolution Doppler bandwidth pulse repetition frequency and coherency This is an excellent resource for engineering professionals working in areas of radar signal processing and imaging as well as students interested in studying SAR **Management** ,1980

Aircraft Finance Bijan Vasigh,Reza Taleghani,Darryl Jenkins,2012-06-15 This title presents a flexible valuation and decision making tool for financial planners airlines lease companies bankers insurance companies and aircraft manufacturers

Mechanical Design Engineering Handbook Peter Childs,Marc Masen,2024-09-30 Mechanical Design Engineering Handbook Third Edition discusses the mechanical engineering skills that are essential to power generation production and transportation Machine elements such as bearings shafts gears belts chains clutches and belts represent fundamental building blocks for a wide range of technology applications The aim of this handbook is to present an overview of the design process and to introduce the technology and selection of specific machine elements that are fundamental to a wide range of mechanical engineering design applications This book includes detailed worked examples for the design and application of machine elements and over 600 images with line drawings complemented by solid model illustrations to aid understanding of the machine elements and assemblies concerned The context for engineering and mechanical design is introduced in the first chapter which also presents a blended design process incorporating principles from systematic and holistic design as well as practical project management Provides a comprehensive treatment of machine elements including bearings gears shafts clutches brakes belts chains springs wire rope hydraulics and pneumatics Presents the design and selection of flow charts Includes over 600 illustrations presenting the technologies and their implementation Covers detailed worked examples

throughout **Human Factors in Aircraft Maintenance** Demetris Yiannakides,Charalampos Sergiou,2019-09-17 This book provides an in depth analysis of human failure and its various forms and root causes The analysis is developed through real aviation accidents and incidents and the deriving lessons learned Features Employs accumulated experience and the scientific and research point of view and recorded aviation accidents and incidents from the daily working environment Provides lessons learned and integrates the existing regulations into the human factors discipline Highlights the responsibility concerns and raises the accountability issues deriving from the engineers profession by concisely distinguishing human failure types Suggests a new approach in human factors training in order to meet current and future challenges imposed on aviation maintenance Offers a holistic approach in human factors aircraft maintenance Human Factors in Aircraft Maintenance is comprehensive easy to read and can be used as both a training and a reference guide for operators regulators auditors researchers academics and aviation enthusiasts It presents the opportunity for aircraft engineers aviation safety officers and psychologists to rethink their current training programs and examine the pros and cons of employing this new approach Smart Grids and Green Energy Systems A. Chitra,V. Indragandhi,W. Razia Sultana,2022-09-28 SMART GRIDS AND GREEN ENERGY SYSTEMS Green energy and smart grids are two of the most important topics in the constantly emerging and changing energy and power industry Books like this one keep the veteran engineer and student alike up to date on current trends in the technology and offer a reference for the industry for its practical applications Smart grids and green energy systems are promising research fields which need to be commercialized for many reasons including more efficient energy systems and environmental concerns Performance and cost are tradeoffs which need to be researched to arrive at optimal solutions This book focuses on the convergence of various technologies involved in smart grids and green energy systems Areas of expertise such as computer science electronics electrical engineering and mechanical engineering are all covered In the future there is no doubt that all countries will gradually shift from conventional energy sources to green energy systems Thus it is extremely important for any engineer scientist or other professional in this area to keep up with evolving technologies techniques and processes covered in this important new volume This book brings together the research that has been carrying out in the field of smart grids and green energy systems across a variety of industries and scientific subject areas Written and edited by a team of experts this groundbreaking collection of papers serves as a point of convergence wherein all these domains need to be addressed The various chapters are configured in order to address the challenges faced in smart grid and green energy systems from various fields and possible solutions Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas this is a must have for any library **Networked Control Systems for Connected and Automated Vehicles** Alexander Guda,2022-11-15 Control of large scale distributed energy systems over communication networks is an important topic with many application domains The book presents novel concepts of

distributed control for networked and cyber physical systems CPS such as smart industrial production lines smart energy grids and autonomous vehicular systems It focuses on new solutions in managing data and connectivity to support connected and automated vehicles CAV The book compiles original research papers presented at the conference Networked Control Systems for Connected and Automated Vehicles Russia The latest connected and automated vehicle technologies for next generation autonomous vehicles are presented The book sets new goals for the standardization of the scientific results obtained and the advancement to the level of full autonomy and full self driving FSD The book presents the latest research in artificial intelligence assessing virtual environments deep learning systems and sensor fusion for automated vehicles Particular attention is paid to new safety standards safety and security systems and control of epidemic spreading over networks The issues of building modern transport infrastructure facilities are also discussed in the articles presented in this book The book is of considerable interest to scientists researchers and graduate students in the field of transport systems as well as for managers and employees of companies using or producing equipment for these systems **New Results in**

Numerical and Experimental Fluid Mechanics V Hans Josef Rath, Carsten Holze, Hans-Joachim Heinemann, Rolf Henke, Heinz Hönlinger, 2007-12-10 This volume collects contributions to the 14th Symposium of the STAB German Aerospace Aerodynamics Association The association involves German scientists and engineers from universities research establishments and industry who are doing research and project work in numerical and experimental fluid mechanics and aerodynamics mainly for aerospace but for other applications too The volume gives a broad overview of ongoing work in Germany in this field DICTIONARY OF INTERNATIONAL TRADE 8th Edition , *Fashion Marketing and Communications* Olga Mitterfellner, 2024-12-11 Fashion Marketing and Communications draws together interdisciplinary approaches from marketing branding promotion and critical media studies to provide a comprehensive and honest understanding of the commercial and ethical functions marketing plays in the fashion industry Offering a combination of theory and practice the book covers subjects including historical advertising and public relations modern consumerism contemporary marketing techniques international markets and sustainable and inclusive marketing outlining the opportunities and challenges facing the future of fashion marketers This second edition has been fully revised to incorporate new chapters on sustainability marketing digital marketing and future facing trends Interviews with practitioners have been refreshed and broadened to include a diverse range of perspectives from around the world New case studies showcase real life examples from Abercrombie Fitch Freitag LOEWE and SOLIT Japan This book champions new actionable theory frameworks with embedded activity sheets that invite the reader to apply the frameworks in an educational or professional context Examining the last 100 years of fashion marketing and communications and current theory and practice this broad ranging text is perfect for advanced undergraduate and postgraduate students of fashion marketing brand management and communications as well as practitioners PowerPoint slides and exercise questions are available to support the book

Dynamic Behavior of Soft and Hard Materials Volume 1 R. Velmurugan, G. Balaganesan, Naresh Kakur, Krishnan Kanny, 2023-12-31 This book comprises the select peer reviewed proceedings of the 13th International Symposium on Plasticity and Impact Mechanics IMPLAST 2022 which was held at Indian Institute of Technology Madras to commemorate the 80th birthday of Prof N K Gupta IIT Delhi It aims to provide a comprehensive and broad spectrum picture of the state of the art research and development in diverse areas such as constitutive relations theories of plasticity stress waves in solids earthquake loading high speed impact problems fire and blast loading structural crashworthiness and failure mechanics of penetration and perforation among others The contents focus on aspects of large deformations and failure of materials including metals composites cellular geomaterials or concrete and structures resulting from quasi static earthquake fire impact or blast loading This book is a valuable resource for researchers and professionals working in academia and industry in the areas of mechanical materials and aerospace engineering

Proceedings of the 15th International Conference on Axiomatic Design 2023 Erik Puik, David S. Cochran, Joseph Timothy Foley, Petra Foith-Förster, 2023-12-15 This book of carefully selected research papers captures the essence of systems engineering It offers readers a comprehensive exploration in the most recent applications and advancements of Axiomatic Design a powerful method that elevates the level of product design and manufacturing Although Axiomatic Design originated at the Massachusetts Institute of Technology MIT in Boston it has been further developed by an active community of users and academics from all over the world For the 15th time the International Conference on Axiomatic Design convened global experts to discuss the core of the methodology Their shared objective was to advance systems engineering catering to the increasing complexity of modern product design From over 85 submissions the program committee selected 20 papers to ensure quality and relevance Our profound gratitude extends to the contributing authors whose research and dedication have shaped this collection and to the program committee members for their unwavering commitment to academic integrity Through their combined efforts this document stands as a testament to the innovative spirit and academic excellence synonymous with systems engineering as developed by MIT

Developments in Reliability Engineering Mangey Ram, 2024-08-09 Modern systems have become increasingly complex to design and build while the demand for reliability and cost effective enhancement continues Robust international competition has further intensified the need for all designers managers practitioners scientists and engineers to ensure a level of reliability of their products and processes before release at the lowest cost Developments in Reliability Engineering equips its audience with the necessary information to keep up with the latest original research and state of the art advances in reliability engineering The volume offers an excursus from historical theories and methods to the present world practical utility of these concepts with worked out examples Guides readers through reliability topics from an historical perspective to new research results advancements and latest developments Draws on the authors experience of reliability analysis in a range of industries and disciplines showing the need for reliability from the product design stage right through to aftercare

Provides methods throughout making this title a good source of actionable information

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