

Category:Primary Reference

From SEBoK

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A primary reference has been identified by the author team as a "key" reference, which is critically important to understanding a given subject. Each article of the SEBoK defines a set of 10 or fewer primary references. The general concept for primary references is that if a SEBoK user were to read both the article on a subject along with the defined Primary References, he or she would have a firm grasp on the principle concepts relate to that subject.

Each primary reference article contains the complete bibliographic information for that reference and a listing of all of the articles that list that source as a primary reference. Where possible, authors have provided an annotation, explaining how that reference specifically addresses a specific knowledge area or topic of the SEBoK. To provide feedback on a primary reference, please use the DISQUS feature for that primary reference.

Note: The reference list is sorted alphabetically by title; "a", "an", and "the" *are* included in the alphabetization (i.e. "A Guide to the Project Management Body of Knowledge (PMBOK)" would be listed under "A").

Pages in category "Primary Reference"

The following 249 pages are in this category, out of 249 total.

A

- A Case for Service Systems Engineering
- A Catalog of NASA-Related Case Studies
- A Framework for Software Product Line Practice
- A Guide to the Project Management Body of Knowledge
- A Journey Through the Systems Landscape
- A Mathematical Theory of Systems Engineering: The Elements
- A Multidisciplinary Framework for Resilience to Disasters and Disruptions
- A Practical Guide to SysML: The Systems Modeling Language
- A Spiral Model of Software Development and Enhancement
- A Survey of Model-Based Systems Engineering (MBSE) Methodologies
- A Systems Engineering Capability Maturity Model
- Advances in Services Innovations
- An Enterprise Framework for Operationally Effective System of Systems Design
- An Enterprise Systems Engineering Framework
- An Enterprise Systems Engineering Model
- An Integrated Approach to Developing Systems Professionals
- An Introduction to the Journal of Enterprise Transformation
- An Overview of ISO/IEC/IEEE 15288, System Life Cycle Processes
- ANSI/EIA 632
- Architecting Principles for Systems-of-Systems
- Architecting Resilient Systems

- Architectures for Enterprise Integration and Interoperability

B

- Balancing Agility and Discipline
- Bayesian Reliability Analysis
- Better Health Care and Lower Costs: Accelerating Improvement through Systems Engineering
- Beyond the Lean Revolution: Achieving Successful and Sustainable Enterprise Transformation
- Business Process Management

C

- Capability Engineering - An Analysis of Perspectives
- Capability Maturity Model Integrated (CMMI) for Development
- Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering
- Case Studies of Systems Engineering and Management in Systems Acquisition
- CMMI For Acquisition: Guidelines for Improving the Acquisition of Products and Services
- CMMI for Development: Guidelines for Process Integration and Product Improvement
- Columbia Accident Investigation Report
- Complex Adaptive Operating System: Creating Methods for Complex Project Management
- Complex Adaptive Systems Engineering (CASE)
- Complex System Classification
- Creating Systems That Work
- Culture's Consequences

D

- Data Driven: Profiting from Your Most Important Business Asset
- Dealing with Complexity
- Decision Making for Systems Engineering and Management
- Defense Acquisition Guidebook (DAG)
- Defining a Strategy for Development of Systems Capability in the Workforce
- Department of Homeland Security Risk Lexicon
- Design of Enterprise Systems: Theory, Architecture, and Methods
- Designing Software for Ease of Extension and Contraction
- Dilemmas in a General Theory of Planning
- DOD Guide for Achieving Reliability, Availability, and Maintainability
- Doing It Differently - Systems for Rethinking Construction

E

- Effective Characterization Parameters for Measuring Systems Engineering
- Effective Risk Management: Some Keys to Success
- ENG Competency Model
- Engineering Enterprises Using Complex-Systems Engineering
- Engineering the Enterprise as a System
- Enterprise as Systems: Essential Challenges and Enterprise Transformation
- Enterprise Systems Engineering: Advances in the Theory and Practice
- Enterprise Transformation
- Enterprise, Systems, and Software—The Need for Integration

- Environmental Impact Statements
- Essentials of Project and Systems Engineering Management
- Ethics in Engineering Practice and Research
- Evaluating the Measurement Process
- Explaining Emergence
- Exploring the Relationship between Systems Engineering and Software Engineering

F

- Facets of Systems Science
- Final Report of the Model Based Engineering (MBE) Subcommittee
- From TRL to SRL: The Concept of System Readiness Levels

G

- GEIA-859
- GEIA-HB-649
- General System Theory: Foundations, Development, Applications
- Gifts Differing: Understanding Personality Type
- Global Positioning System. Systems Engineering Case Study
- Graduate Reference Curriculum for Systems Engineering (GRCSE™)
- Graduate Software Engineering 2009 (GSWE2009)
- Group Dynamics
- Guide for Integrating Systems Engineering into DoD Acquisition Contracts
- Guide to the Software Engineering Body of Knowledge (SWEBOK)
- Guidelines for Successful Acquisition and Management of Software-Intensive Systems

H

- Handbook of Environmental Engineering Calculations
- Handbook of Human-Systems Integration
- Handbook of Industrial Engineering, Technology and Operations Management
- Handbook of Service Science
- Handbook of Systems Engineering and Management
- Handbook on Enterprise Architecture
- Hubble Space Telescope Case Study (reference)
- Human-System Integration in the System Development Process

I

- IBS Group, Eastern European ITS Services - Capability-Based Development for Business Transformation
- IEEE 1471
- INCOSE Lean Enablers for Systems Engineering
- INCOSE Systems Engineering Handbook
- INCOSE Systems Engineering Vision 2020
- Industrial Dynamics
- Industrial Ecology and Sustainable Engineering
- Industrial Engineering Terminology
- Integrated Logistics Support Handbook

- Integrated Product and Process Design and Development
- Integration and Test Strategies for Complex Manufacturing Machines
- Introduction to Logistics Systems Planning and Control
- ISO 10007
- ISO 14001: Environmental Systems Handbook
- ISO/IEC 21827
- ISO/IEC 26702
- ISO/IEC 27001
- ISO/IEC/IEEE 15288
- ISO/IEC/IEEE 15939
- ISO/IEC/IEEE 16326
- ISO/IEC/IEEE 24765
- ISO/IEC/IEEE 29148
- ISO/IEC/IEEE 42010
- ITIL Lifecycle Publication Suite Books

J

- Juran on Quality by Design

L

- Leading Change
- Lean Enablers for Systems Engineering
- Lean for Systems Engineering - with Lean Enablers for Systems Engineering
- Life-Cycle Cost and Economic Analysis
- Logistics and Materiel Readiness
- Logistics Engineering and Management
- Logistics Systems Analysis

M

- Maintainability: A Key to Effective Serviceability and Maintenance Management
- Making Better Decision Makers
- Management for Quality in High-Technology Enterprises
- Managing and Leading Software Projects
- Managing Complexity
- Managing for Quality and Performance Excellence
- Managing the Risks of Organisational Accidents
- Maynard's Industrial Engineering Handbook
- Measuring Organisational Capability
- Metrics Guidebook for Integrated Systems and Product Development
- Model-Based Systems Engineering
- Model-Oriented Systems Engineering Science
- Modernizing Legacy Systems
- Multi-level SLAs for Harmonized Management in the Future Internet

N

- NASA APPEL Performance Enhancement

- NASA Systems Engineering Handbook
- NASA's Systems Engineering Competencies
- NextGen: Enterprise Transformation of the United States Air Transport Network
- NIST 800-64
- NIST Framework and Roadmap for Smart Grid Interoperability Standards Release 1.0
- NIST SP 800-160

O

- Object-Process Methodology - A Holistic Systems Paradigm
- On Ontology, Ontologies, Conceptualizations, Modeling Languages, and (Meta)Models
- On the Systems Engineering and Management of Systems of Systems and Federations of Systems
- On Trade Studies
- Operational IT Governance

P

- People Capability Maturity Model (P-CMM)
- Peopleware: Productive Projects and Teams
- Practical Software and Systems Measurement (PSM) Guide
- Principles for Resilient Design - A Guide for Understanding and Implementation
- Principles of Complex Systems for Systems Engineering
- Proceedings of the 8th International Conference on Service Oriented Computing: ICSOC 2010

Q

- Quality Improvement through Planned Experimentation

R

- Reinventing Project Management
- Reliability Engineering Handbook
- Reliability Modeling, Prediction, and Optimization
- Requirements Engineering
- Resilience Engineering: Concepts and Precepts
- Resilience Principles for Engineered Systems
- Rethinking the Fifth Discipline
- Risk Management Guide for DoD Acquisition

S

- Safety and Error Management
- Security Engineering: A Guide to Building Dependable Distributed Systems
- Selecting Attributes to Measure the Achievement of Objectives
- Service Science
- Service Science: Progress & Directions
- Service Systems Management and Engineering
- SeSCE Methodology
- Simulation Modeling and Analysis
- SOA Principles of Service Design

- Social Systems Theory and Practice
- Societal Systems: Planning, Policy, and Complexity
- Software Engineering Economics
- Software Fault Injection
- Software Modeling and Measurement: The Goal/Question/Metric Paradigm
- Software Project Management
- Software Risk Management
- Some Future Trends and Implications for Systems and Software Engineering Processes
- Statistical Methods for Reliability Data
- Statistical Models and Methods for Lifetime Data
- Strategic Decision Making
- Strategic IT Portfolio Management: Governing Enterprise Transformation
- Succeeding through Service Innovation
- System Analysis, Design, and Development
- System Integration (reference)
- System of Systems Engineering - New Challenges for the 21st Century
- System-of-Systems Engineering Management: A Review of Modern History and a Path Forward
- Systems Engineering
- Systems Engineering and Analysis
- Systems Engineering Body of Knowledge (Singapore)
- Systems Engineering Competencies Framework 2010-0205
- Systems Engineering Concept Model
- Systems Engineering Guide
- Systems Engineering Guide for Systems of Systems
- Systems Engineering Guidebook
- Systems Engineering Guidebook for Intelligent Transportation Systems (ITS)
- Systems Engineering Leading Indicators Guide
- Systems Engineering Management (reference)
- Systems Engineering Measurement Primer
- Systems Engineering Plan Outline
- Systems Engineering Roles Revisited
- Systems Engineering Vision 2025
- Systems Engineering: A 21st Century Systems Methodology
- Systems of Systems
- Systems of Systems Engineering - Principles and Applications
- Systems of Systems Engineering - Innovations for the 21st Century
- Systems Synthesis
- Systems Thinking, Systems Practice
- Systems Thinking. Applied.
- Systems Thinking: Coping with 21st Century Problems
- Systems Thinking: Managing Chaos and Complexity

T

- Teambuilding: The ASTD Trainer's Sourcebook
- Technical Measurement Guide
- Technology Readiness Levels—A White Paper
- Telecommunication Systems Engineering
- The Agile Manifesto: Principles behind the Agile Manifesto
- The application of chaos, complexity, and emergent (meta)patterns to research in teacher education

- The Art of Systems Architecting
- The Capability Maturity Model
- The Constructive Systems Engineering Cost Model (COSYSMO)
- The DAMA Guide to the Data Management Body of Knowledge
- The Fifth Discipline
- The Fifth Discipline Fieldbook: Strategies and Tools for Building a Learning Organization
- The Four Service Marketing Myths – Remnants of a Goods-Based Manufacturing Model
- The Future of Systems, Man, and Cybernetics
- The Mythical Man-Month
- The ROI of Systems Engineering
- The Service Economy
- The Seven Samurai of Systems Engineering
- The Six Sigma Handbook
- The Social Styles Handbook
- The Systems Approach and its Enemies
- The Thirty Elements of Systems Engineering
- The Timeless Way of Building
- The Toyota Product Development System
- Towards a conceptual framework for resilience engineering
- Towards a Method to Describe Resilience to Assist in System Specification
- Towards a System of Systems Concept
- Towards a Theory Sensitive Approach to Planning Enterprise Transformation
- Transforming the Enterprise Using a Systems Approach
- Twelve Systems Engineering Roles

U

- UML for Systems Engineering Request for Proposal
- Understanding Complexity
- Understanding the Current State of US Defense Systems of Systems and the Implications for Systems Engineering

V

- Visualizing Project Management

W

- What are the General Principles Applicable to Systems?
- What is the Systems Approach?
- Where Good Ideas Come From: The Natural History of Innovation
- Why Case Studies?
- Working towards a Holistic Organisational Systems Model

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