



System Requirements Analysis

By Jeffrey O. Grady

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Systems Requirement Analysis gives the professional systems engineer the tools to set up a proper and effective analysis of the resources, schedules and parts that will be needed in order to successfully undertake and complete any large, complex project. The text offers the reader the methodology for rationally breaking a large project down into a series of stepwise questions so that a schedule can be determined and a plan can be established for what needs to be procured, how it should be obtained, and what the likely costs in dollars, manpower and equipment will be in order to complete the project at hand.

Systems Requirement Analysis is compatible with the full range of engineering management tools now popularly used, from project management to competitive engineering to Six Sigma, and will ensure that a project gets off to a good start before it's too late to make critical planning changes. The book can be used for either self-instruction or in the classroom, offering a wealth of detail about the advantages of requirements analysis to the individual reader or the student group.

* Author is the recognized authority on the subject of Systems Engineering, and was a founding member of the International Council on Systems Engineering (INCOSE)

* Defines an engineering system, and how it must be broken down into a series of process steps, beginning with a definition of the problems to be solved

* Complete overview of the basic principles involved in setting up a systems requirements analysis program, including how to set up the initial specifications that define the problems and parameters of an engineering program

* Covers various analytical approaches to systems requirements including: structural and functional analysis, budget calculations, and risk analysis



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Engineering

Systems Requirements Analysis

Jeffrey O. Grady

President of JOG Systems Engineering, Inc.

Adjunct Professor

University Of California, San Diego

- Complete overview of the basic principles involved in setting up a Systems Requirements Analysis program, including how to set up the initial specifications that define both the problems and parameters of an engineering program.
- Defines an engineering system and how it must be broken down into a series of process steps, beginning with a definition of the problems to be solved.
- Covers various analytical approaches to systems requirements, including structural analysis and functional analysis.
- Shows how to develop a requirements budget and calculate project financial margins.

Systems Requirements Analysis will give the professional systems engineer the tools to set up a proper and effective analysis of what resources, schedules, and parts that will be needed in order to successfully undertake and complete any large, complex project. The book offers a methodology for rationally breaking a large project down into a series of stepwise questions and categorical “needs list” to determine a schedule and establish a plan for specific provisions and tools that are required to complete the project at hand.

Systems Requirements Analysis emphasizes the need to lay out a clear technique for identifying what an engineering project is expected to accomplish, what will be needed to start and complete the project, and what is the most optimal use of those needed resources. It will enable the professional engineer to make sure a project has a successful launch before it is too late to make critical planning changes.

Contents:

Introduction; Requirements Foundation; Traditional Structured Analysis; Computer Software Structured Analysis; Specification Content Standards; Requirements Management; Computer Applications; Closing

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About the Author

Jeffrey O. Grady is the Owner of JOG System Engineering, a consulting and teaching company, and an Adjunct Professor at the University of California, San Diego. He was formerly the manager of systems development at GD Space Systems. He is the author of ten books in the systems engineering field. Jeff is an

INCOSE Fellow, Founder, and ESEP. Jeff worked as an employee for Librascope, Ryan Aeronautical, General Dynamics Convair, and General Dynamics Space Systems. He has consulted in systems engineering for many companies, developing military and commercial products. He has taught hundreds of system engineering courses for universities, short course companies and for his own company.

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