

DO-254 for the FPGA Designer

By: Dagan White

The standard that governs the design of avionic components and systems, DO-254, is one of the most poorly understood but widely applicable standards in the avionic industry. While information on the general aspects of the standard is easy to obtain, the details of exactly how to implement the standard are sketchy. And once an entity develops a process that achieves compliance, the details of how compliance was achieved become part of the intellectual property of that entity. This white paper focuses on the details of developing a DO-254 compliant process for the design of FPGAs.

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Crowdsourcing and Probabilistic Decision-Making in Software Engineering: Emerging Research and Opportunities Gupta, Varun, 2019-08-30 With today's technological advancements the evolution of software has led to various challenges regarding mass markets and crowds. High quality processing must be capable of handling large groups in an efficient manner without error. Solutions that have been applied include artificial intelligence and natural language processing but extensive research in this area has yet to be undertaken. Crowdsourcing and Probabilistic Decision Making in Software Engineering: Emerging Research and Opportunities is a pivotal reference source that provides vital research on the application of crowd based software engineering and supports software engineers who want to improve the manner in which software is developed by increasing the accuracy of probabilistic reasoning to support their decision making and getting automation support. While highlighting topics such as modeling techniques and programming practices this publication is ideally designed for software developers, software engineers, computer engineers, executives, professionals and researchers.

Civil Aircraft Electrical Power System Safety Assessment Peng Wang, 2017-06-12 Civil Aircraft Electrical Power System Safety Assessment: Issues and Practices provides guidelines and methods for conducting a safety assessment process on civil airborne systems and equipment. As civil aircraft electrical systems become more complicated, electrical wiring failures have become a huge concern in industry and government, especially on aging platforms. There have been several accidents, most recently battery problems on the Boeing 777, with some of these having a relationship to wiring and power generation. Featuring a case study on the continuous safety assessment process of the civil airborne electrical power system, this book addresses problems, issues and troubleshooting techniques such as single event effects, SEE, the failure effects of electrical wiring interconnection systems, EWIS, formal theories and safety analysis methods in civil aircrafts. Introduces how to conduct assignment of development assurance levels for the electrical power system. Includes safety assessments of aging platforms and their respective Electrical Wiring Interconnection System, EWIS. Features material on failure mechanisms for wiring systems and discussion of Failure Modes and Effects Analysis, FMEA, sustainment.

FPGA Design Automation Deming Chen, Jason Cong, Peichen Pan, 2006 FPGA Design Automation: A Survey is an up to date comprehensive survey/tutorial of FPGA design automation with an emphasis on the recent developments within the past 5 to 10 years. The focus is on the theory and techniques that have been or most likely will be reduced to practice. It covers all major steps in FPGA design: flow, routing and placement, circuit clustering, technology mapping and architecture specific optimization, physical synthesis, RT level and behavior level synthesis and power optimization. FPGA Design Automation: A Survey can be used as both a guide for beginners who are embarking on research in this relatively young yet exciting area and a useful reference for established researchers in this field.

Designing with Xilinx® FPGAs Sanjay Churiwala, 2016-10-20 This book helps readers to implement their designs on Xilinx FPGAs. The authors demonstrate how to get the greatest impact from using the

Vivado Design Suite which delivers a SoC strength IP centric and system centric next generation development environment that has been built from the ground up to address the productivity bottlenecks in system level integration and implementation This book is a hands on guide for both users who are new to FPGA designs as well as those currently using the legacy Xilinx tool set ISE but are now moving to Vivado Throughout the presentation the authors focus on key concepts major mechanisms for design entry and methods to realize the most efficient implementation of the target design with the least number of iterations

Image Processing Design Using Xilinx FPGA Kerry Roome,2021-03-16 Xilinx Automotive platforms offer the total driver assistance solution with revolutionary SoCs The high levels of programmable systems integration enable multiple DA functions on a single system on chip while processor acceleration enables increased system performance for image processing This book contains a compilation of several blogs from the MicroZed Chronicles which examines how to develop image processing systems using Xilinx FPGA and heterogeneous SoC The initial chapters are new and explain the principles behind image processing sensors and sensor selection parameters

HDL Based ASIC and FPGA Design Methodology Using Synopsys and Xilinx Iqbalur R. Rokan,1997 Introduction to Digital Design Using Digilent FPGA Boards LBE Books,Richard E. Haskell,Darrin M. Hanna,2009-05 **Image Processing With Xilinx Devices** Adam Taylor,2017-12-21 This book contains a compilation of a number of blogs from the MicroZed Chronicles which examines how to develop image processing systems using Xilinx FPGA and heterogeneous SoC The initial chapters are new and explain the principles behind image processing sensors and sensor selection parameters

Digital Design Richard E. Haskell,Darrin M. Hanna,LBE Books,2009 *FPGA Architecture* Ian Kuon,2008 *DIGITAL DESIGN USING DIGILENT FPGA BOARDS* RICHARD. HASKELL, *Virtex-II Platform FPGA Handbook* XILINX.,2001 **XILINX FPGA Design for Implementation of IEEE Format 32-bit Floating-point Arithmetic [i.e. Arithmetic]** Yuan Zhang,1998 *Design and Implementation of a Burn in Board for Xilinx Virtex-4 FPGA* Jorge Bermudez,2011 A Practical Guide for Simulation and FPGA Implementation of Digital Design Bekkay Hajji,Adel Mellit,Loubna Bouselham,2022-04-25 This book introduces the FPGA technology used in the laboratory sessions and provides a step by step guide for designing and simulation of digital circuits It utilizes the VHDL language which is one of the most common language used to describe the design of digital systems The Quartus II Xilinx ISE 14 7 and ModelSim software are used to process the VHDL code and make simulations and then the Altera and Xilinx FPGA platforms are employed to implement the simulated digital designs The book is composed of four parts The first part of this book has two chapters and covers various aspects FPGA architectures ASIC vs FPGA comparison FPGA design flow and basic VHDL concepts necessary to describe the design of digital systems The second part of the book includes three chapters that deal with the design of digital circuits such as combinational logic circuits sequential logic circuits and finite state machines The third part of the book is reserved for laboratory projects carried out on the FPGA platform It is a largely hands on lab class for design digital circuits and implementing their designs on the Altera FPGA

platform Finally the fourth part of this work is devoted to recent applications carried out on FPGAs in particular advanced techniques in renewable energy systems The book is primarily intended for students scholars and industrial practitioners interested in the design of modern digital systems FPGA Prototyping by VHDL Examples Pong P. Chu, 2008-02-15 This book uses a learn by doing approach to introduce the concepts and techniques of VHDL and FPGA to designers through a series of hands on experiments FPGA Prototyping by VHDL Examples provides a collection of clear easy to follow templates for quick code development a large number of practical examples to illustrate and reinforce the concepts and design techniques realistic projects that can be implemented and tested on a Xilinx prototyping board and a thorough exploration of the Xilinx PicoBlaze soft core microcontroller

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