



## Developing Safety-Critical Software: A Practical Guide for Aviation Software and DO-178C Compliance (Hardback)

By Leanna Rierison

Taylor Francis Inc, United States, 2013. Hardback. Condition: New. Language: English . Brand New Book. The amount of software used in safety-critical systems is increasing at a rapid rate. At the same time, software technology is changing, projects are pressed to develop software faster and more cheaply, and the software is being used in more critical ways. Developing Safety-Critical Software: A Practical Guide for Aviation Software and DO-178C Compliance equips you with the information you need to effectively and efficiently develop safety-critical, life-critical, and mission-critical software for aviation. The principles also apply to software for automotive, medical, nuclear, and other safety-critical domains. An international authority on safety-critical software, the author helped write DO-178C and the U.S. Federal Aviation Administration's policy and guidance on safety-critical software. In this book, she draws on more than 20 years of experience as a certification authority, an avionics manufacturer, an aircraft integrator, and a software developer to present best practices, real-world examples, and concrete recommendations. The book includes: \* An overview of how software fits into the systems and safety processes \* Detailed examination of DO-178C and how to effectively apply the guidance \* Insight into the DO-178C-related documents on tool qualification (DO-330), model-based...



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