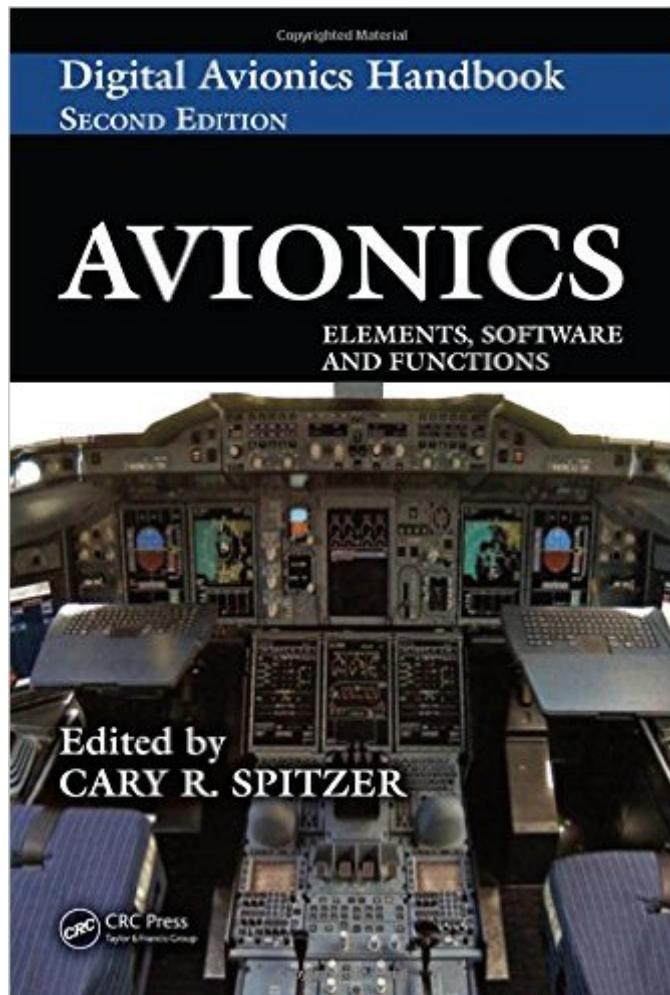


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# Avionics: Elements, Software And Functions (The Avionics Handbook, Second Edition)



## Synopsis

Renamed to reflect the increased role of digital electronics in modern flight control systems, Cary Spitzer's industry-standard Digital Avionics Handbook, Second Edition is available in two comprehensive volumes designed to provide focused coverage for specialists working in different areas of avionics development. The first installment, Avionics: Elements, Software, and Functions covers the building blocks and enabling technologies behind modern avionics systems. It discusses data buses, displays, human factors, standards, and flight systems in detail and includes new chapters on the Time-Triggered Protocol (TTP), ARINC specification 653, communications, and vehicle health management systems.

## Book Information

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## Customer Reviews

This is a very good reference book for the area of avionics. As the book states very clearly, it's edited by Cary R. Spitzer (a very well known reference in the avionics area) and it is a compendium of papers written by professionals in the industry, arranged as a handbook. The book is arranged in two parts: the first one called "Elements & Functions" presents the reader the "building blocks" of technologies used for the later part of the book called "Functions". This second part describes comprehensibly several functions used in the avionics world, such as navigation, communications, flight management systems, fly-by-wire technology, etc. The good points about this book is the somehow smooth progression on the topics, the organization of the different chapters and the level

of depth in each topic and bibliography (when available). Overall, the book has a very good progression, starting with the basic functions, and building up the contents for the second part. The different chapters / papers are very well organized and edited (with a few exceptions), and are very readable. I have an electronics engineering background, and it wasn't difficult at all reading cover to back. Please note that it does include some minor math and concepts that are at college level. Additionally, the level of knowledge presented in each section is very good for a handbook, and very useful in practice (it focus on the practical implementation and application of the topics). Bibliography for each chapter is from good to excellent, depending on the writer of each chapter. The reason of why I knocked a star from this review is due to three areas that I wasn't satisfied with.

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