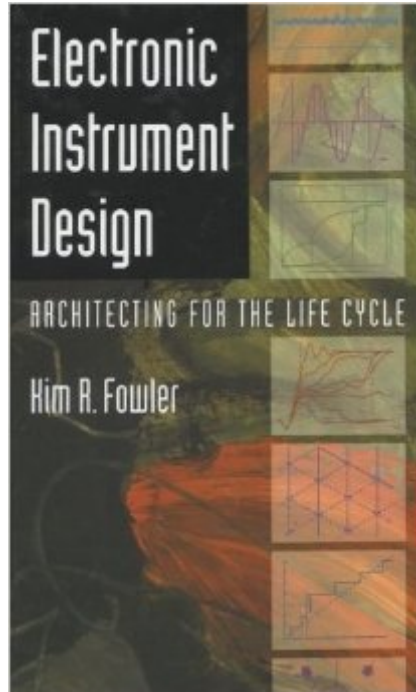


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# Electronic Instrument Design: Architecting For The Life Cycle



## Synopsis

Electronic Instrument Design provides a coherent and integrated presentation of the design process, connecting engineering principles to real applications from a systems perspective. Bridging theory and practice, this hands-on guide builds a framework for developing electronic instrumentation, from hand-held devices to consoles of equipment. It offers practical design solutions, describes the interactions, trade-offs, and priorities encountered, and uses specific details, situations, and numerous case studies as examples. The methods may be applied to single prototypes as well as to mass-produced devices. The applications are not technology-dependent, and will therefore not be outdated by the next generation of hardware or software. While the focus of the book is on projects often found in small- or medium-sized companies, many of the principles presented apply to larger projects as well. Electronic Instrument Design is an ideal text for design courses in electrical and industrial engineering, and also serves as a practical guide for engineers in diverse fields.

## Book Information

Hardcover: 552 pages

Publisher: Oxford University Press; 1 edition (April 25, 1996)

Language: English

ISBN-10: 0195083717

ISBN-13: 978-0195083712

Product Dimensions: 9.6 x 1.3 x 6.3 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

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## Customer Reviews

Written by a well-known authority on instrumentation, this is really one of the most useful guides to electronics, in general, (and instrumentation in particular) that I have ever seen. Most other books on instrumentation are either all theoretical with a smattering of "experiences", or all hands on with little theoretical structure. Fowler's book combines the wisdom of an accomplished and richly

experienced lab technician with the mathematical rigor of many undergraduate texts. The chapters on software, systems engineering, documentation, human factors, and engineering judgment further distinguish it from any hobbyist's guide and most undergraduate type texts. These chapters further enable this book as a practical guide for engineers, engineering managers, lab technicians and managers of labs. This book will appeal to students and practicing engineers who have theoretical understanding but little experience in the lab; and to hobbyists who want to have a deeper understanding of electronic instrumentation. Two thumbs up for this one.

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