

# Textbook/Curriculum Recommendations

By Don Holden

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# DC/AC Premises

- Electronic troubleshooting (at the component level) has ebbed in importance.
- We spend too much time solving circuits – DC, AC(RC), AC(RL), AC(RLC) in SERIES, PARALLEL, SERIES/PARALLEL topologies.
- We need more time on systems fundamentals – filters, amplifiers, two-port networks(h-parameters, input and output impedances), transmission lines (characteristic impedance, reflections, standing waves)
- We need an introduction into RF (communication circuits).

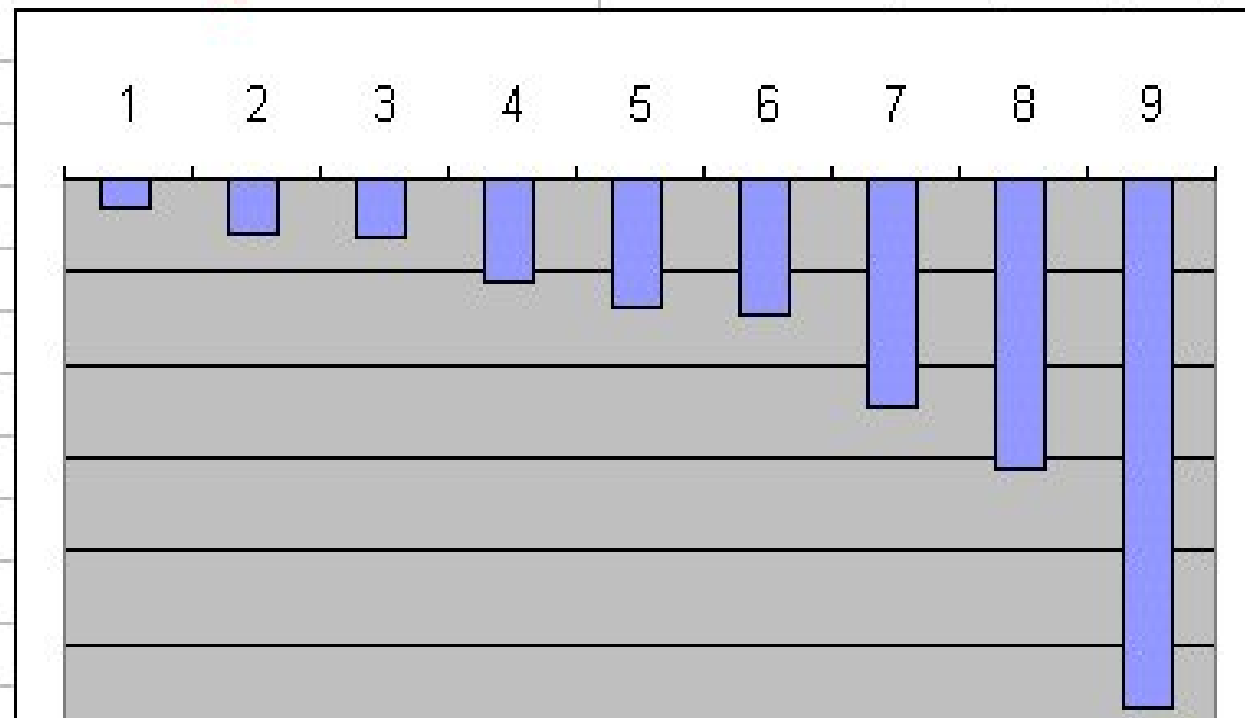
# Barnes&Noble Searches

*(titles in red available for inspection)*

- DC/AC textbooks for current curriculum (See web site for details.))
- Textbooks that begin with general circuit fundamentals, but then morph into communications circuits.
- Textbooks for consideration in mixed-signal test, biomed instrumentation, DAQ1&2 (LabView in automotive, semiconductor, telecom, biomed applications)

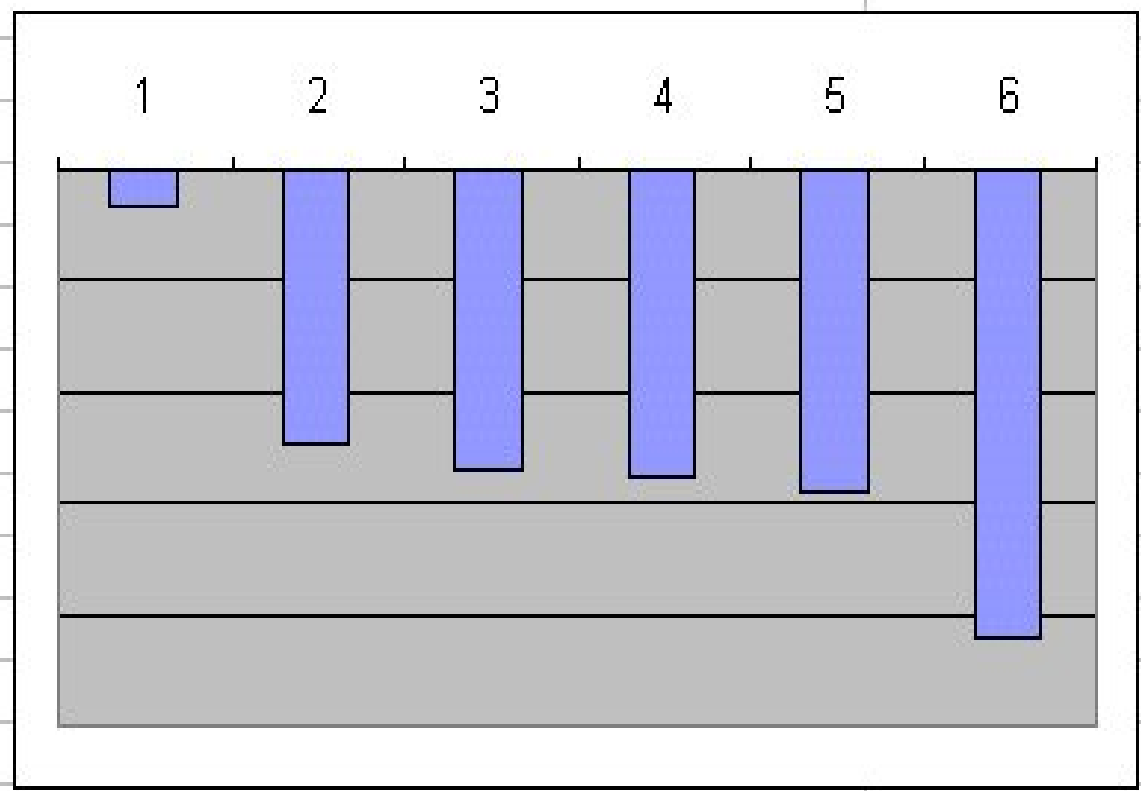
# Barnes & Noble Search - Circuits - Aug 2004

Rank	Title	Authors
15,846	<b>Art of Electronics</b>	Paul Horowitz, Winfield Hill
28,802	<b>Electric Circuits</b>	James William Nilsson, Susan A. Riedel
31,428	<b>Basic Engineering Circuit Analysis</b>	David Irwin, Chwan-Hwa Wu
55,831	<b>Microelectronic Circuits</b>	Adel S. Sedra, Kenneth C. Smith
68,644	<b>Electronic Devices and Circuit Theory</b>	Robert L. Boylestad, Louis Nashelsky
73,819	<b>Introductory Circuit Analysis</b>	Robert L. Boylestad
122,995	<b>Fundamentals of Electric Circuits</b>	Charles K. Alexander, Matthew Sadiku
155,150	<b>Electronics Fundamentals:</b>	Thomas L. Floyd
284,228	<b>Electronics Technology Fundamentals</b>	Robert T. Paynter, Toby Boydell



# Barnes & Noble Search - Communications Circuits - May 2005 - \* no calculus

Rank	Title	Authors
15,846	<b>Art of Electronics</b>	Paul Horowitz, Winfield Hill
122,863	<b>Principles of Modern Communications Technology</b>	A. Michael Noll
135,090	<b>* Complete RF Technicians Handbook</b>	Cotter W. Sayre
137,491	<b>The Electronics of Radio</b>	David Rutledge
144,138	<b>Introduction to Electric Circuits</b>	Richard C. Dorf, James A. Svoboda
210,800	<b>* RF Components and Circuits</b>	Joe Carr



# Barnes & Noble Search - Mixed Signals & Data Acquisition - Aug 2004

Rank	Title	Authors
7,505	<b>HDL Chip Design:</b>	Douglas J. Smith
133,572	<b>Closing the Gap Between ASIC...</b>	David Chinnery, Kurt William Kreutzer
138,207	<b>Introduction to Mixed-Signal IC Test and Measurement</b>	Mark Burns, Gordon W. Roberts
138,494	<b>Demystifying Mixed Signal Test Methods</b>	Mark Baker
185,497	<b>Mixed-signal and DSP Design Techniques, Analog Devices</b>	Walt Kester (Editor)
247,046	<b>Real-Time Concepts for Embedded Systems</b>	Qing Li, Caroline Yao
288,253	<b>Virtual Bio-Instrumentation : Biomedical...Applications in LabVIEW</b>	Jon B. Olansen, Eric Rosow
379,241	<b>Sensors, Transducers and LabVIEW: ...</b>	Barry E. E. Paton, Bernard M. Goodwin
672,766	<b>LabVIEW for Automotive, Telecommunications, Semiconductor,</b>	Hall T. Martin, Meg L. Martin

