Handbook of Fiber Optic Data Communication: A Practical Guide to Optical Networking, Third Edition

By Casimer DeCusatis

Handbook of Fiber Optic Data Communication: A Practical Guide to Optical Networking, Third Edition By Casimer DeCusatis

Handbook of Fiber Optic Data Communication, Third Edition provides a comprehensive, easy to use guide to the field of optical fiber data communications. Written by experts in the industry from major companies such as IBM, Cisco and Nortel, the Handbook is a key reference for optical fiber technology, networking, protocols, applications, manufacturing, and future directions. It includes chapters on all the major industry standards, written by the same experts who developed them.

This edition contains new material on transceiver form factors (QSFP, SFP +, XFP, X2), manufacturing standards, including JEDEC and RoHS, as well as the latest revisions to industry standards including 8G and 10G Fiber Channel, FICON, SONET GFP/LCAS, and 10 Gigabit Ethernet. The book also contains new chapters on emerging technologies and leading edge applications such as silicon photonics, nanophotonics, parallel optical interconnects, specialty fiber cable types, and optical backplanes.

Features include:

- New Case Studies on Voice/Data Convergence, Redesigning Mainframe I/O, National LambdaRail, and optical peer-to-peer networks
- Includes an expanded listing of references on the World Wide Web, plus hard-to-find references for international, homologation, and type approval requirements
- Quick reference tables of all the key optical network parameters and a glossary that defines hundreds of technical terms and acronyms
- Written for engineers by engineers, this Handbook will be an indispensable, hands-on reference for optical networks and equipment developers, designers, and installers, as well as for students studying optical fiber communications wanting an understanding of, and insight into, professional practice.

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Editorial Review

From the Back Cover
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* An accompanying website provides an online portal to the data communications community, containing podcasts on key topics, links to related material from technical societies, corporations and other professional organizations

Written for engineers by engineers, this Handbook will be an indispensable, hands-on reference for optical networks and equipment developers, designers, and installers, as well as for students studying optical fiber communications wanting an understanding of, and insight into, professional practice.

About the Author
Dr. Casimer DeCusatis is an IBM Distinguished Engineer and technical executive based in Poughkeepsie, N.Y. He currently serves as Chief Technology Officer for IBM Systems Networking Strategic Alliances, and has played a leading role in developing data center network and I/O solutions, including extended distance connectivity. He is an IBM Master Inventor with over 100 patents, and recipient of several industry awards, including the IEEE Kiyo Tomiyasu Award, the Sigma Xi Walston Chubb Award for Innovation, the EDN Innovator of the Year Award, the Mensa Research Foundation Copper Black Award for Creative Achievement, the Penn State Outstanding Scholar Alumnus Award, and the IEEE/HKN Outstanding Young Electrical Engineer award (including a citation from the President of the United States and an American flag flown in his honor over the U.S. Capitol). He is co-author of more than 120 technical papers, book chapters, and encyclopedia articles, and editor of the Handbook of Fiber Optic Data Communication (now in its 4rd edition). He is a member of the IBM Academy of Technology and co-leader of the Academy study "Innovation Ecosystems". Dr. DeCusatis received the M.S. and Ph.D. degrees from Rensselaer Polytechnic Institute (Troy, N.Y.) in 1988 and 1990, respectively, and the B.S. degree magna cum laude in the Engineering Science Honors Program from the Pennsylvania State University (University Park, PA) in 1986.

He is a Fellow of the IEEE, Optical Society of America, and SPIE (the international optical engineering society), a member of the Order of the Engineer, Tau Beta Pi, Eta Kappa Nu, Mensa, and various other professional organizations and honor societies (http://www.decusatis.net/casimer/); he was recognized as one of Sigma Xi's Distinguished Members during their 125th anniversary celebration. He is also Founder and Director of Hudson Valley FIRST Lego League (http://www.facebook.com/HudsonValleyFLL) which offers over 1,000 students each year the opportunity to pursue their interest in science and technology. His discussions on data networking are available on Twitter (@Dr_Casimer) or his data networking blog (https://www-304.ibm.com/connections/blogs/DCN/).

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