



Industrial Data Communications, Fifth Edition

By Lawrence (Larry) M. Thompson, Tim Shaw

Download now

Read Online ➔

Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw

As automation becomes more thoroughly networked with advances in speed, connectivity, and security; this fifth edition of an ISA best seller is still designed to give technical professionals with little or no background in data communications the knowledge they need to succeed. Additionally, even those with nominal knowledge will find information to enhance troubleshooting and to understand both legacy systems and the more advanced systems now being installed throughout automated facilities. As before, the text emphasizes the practical aspects of commonly used systems rather than design criteria. It contains a complete description of the relevant terminology, standards, and protocols including EIA/TIA-232/485, IEEE 802.3, IEEE 802.11, and IEEE 802.15. New material in this edition includes information on updated Ethernet and router technologies; a more detailed description of VPNs; and expanded information on cybersecurity (including ANSI/ISA/IEC 62443). A complete glossary and index allows the book to be used as a handy reference. SCADA, DCS, and fieldbus systems are all explained, as well as operating system considerations from a communications perspective. This is a book for newcomers to automation data communications, as well as a reference for those who are currently working in the field.

↓ [Download Industrial Data Communications, Fifth Edition ...pdf](#)

📖 [Read Online Industrial Data Communications, Fifth Edition ...pdf](#)

Industrial Data Communications, Fifth Edition

By Lawrence (Larry) M. Thompson, Tim Shaw

Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw

As automation becomes more thoroughly networked with advances in speed, connectivity, and security; this fifth edition of an ISA best seller is still designed to give technical professionals with little or no background in data communications the knowledge they need to succeed. Additionally, even those with nominal knowledge will find information to enhance troubleshooting and to understand both legacy systems and the more advanced systems now being installed throughout automated facilities. As before, the text emphasizes the practical aspects of commonly used systems rather than design criteria. It contains a complete description of the relevant terminology, standards, and protocols including EIA/TIA-232/485, IEEE 802.3, IEEE 802.11, and IEEE 802.15. New material in this edition includes information on updated Ethernet and router technologies; a more detailed description of VPNs; and expanded information on cybersecurity (including ANSI/ISA/IEC 62443). A complete glossary and index allows the book to be used as a handy reference. SCADA, DCS, and fieldbus systems are all explained, as well as operating system considerations from a communications perspective. This is a book for newcomers to automation data communications, as well as a reference for those who are currently working in the field.

Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw **Bibliography**

- Sales Rank: #907891 in Books
- Published on: 2015-09-01
- Format: Import
- Original language: English
- Dimensions: 9.75" h x 6.75" w x 1.25" l, 2.40 pounds
- Binding: Paperback
- 505 pages



[Download Industrial Data Communications, Fifth Edition ...pdf](#)



[Read Online Industrial Data Communications, Fifth Edition ...pdf](#)

Editorial Review

About the Author

Lawrence (Larry) M. Thompson is the owner and general manager of ESdat Co., a consulting firm specializing in industrial data communications. Throughout his distinguished career, Thompson has served as a technician, technical trainer, and course developer in electronics, measurement/control, and computer networking. A 20-year veteran of the US Air Force, Thompson specialized in the maintenance of electronic encryption equipment during his service. His post-military industrial experience includes positions as technician, test engineer, and test engineering supervisor for numerous companies.

Thompson holds a bachelor's degree in applied arts and science from Tarleton State University and worked on a master's degree in computer science at the University of Texas. He retired as Department Chair for E-Commerce Technology at Texas State Technical College, to run his own consulting business full time. He has served as an adjunct instructor for ISA for more than 23 years. He has written several books, including ISA's Industrial Data Communications and Basic Electrics/Electronics for Control, and is a Certified Automation Professional® (CAP®).

William T. (Tim) Shaw, Ph.D., CISSP, C|EH, CPT, is the Senior Security Architect for Industrial Automation Systems at MAR, Incorporated, a privately held professional services firm that provides technical and management services to government agencies and commercial customers. Shaw possesses more than 40 years of experience in industrial automation, including process/plant automation, electrical substation automation, factory automation electrical/water/pipeline SCADA and equipment condition monitoring. He has held a diverse range of positions through his career, including technical contributor, technical manager, general manager, CTO and division President/CEO. Shaw is an expert in control system cybersecurity, particularly on NERC CIP standards, ISA SP.99 standards, NRC RG 5.71 and the NIST 800-53 standards, and is highly knowledgeable in the areas of US nuclear power plant cybersecurity and physical security. Shaw has written a wide variety of books, magazine articles and columns, and technical papers. He wrote two books--Computer Control of Batch Processes and Cybersecurity for SCADA Systems--and contributed to two other books. Shaw serves as a contributing editor to Electric Energy T&D magazine.

Users Review

From reader reviews:

Carla Helton:

Do you have favorite book? Should you have, what is your favorite's book? Publication is very important thing for us to learn everything in the world. Each book has different aim or even goal; it means that guide has different type. Some people really feel enjoy to spend their a chance to read a book. They can be reading whatever they consider because their hobby is usually reading a book. Think about the person who don't like reading a book? Sometime, person feel need book after they found difficult problem or maybe exercise. Well, probably you will need this Industrial Data Communications, Fifth Edition.

Joseph Lee:

Precisely why? Because this Industrial Data Communications, Fifth Edition is an unordinary book that the inside of the guide waiting for you to snap that but latter it will distress you with the secret the idea inside. Reading this book adjacent to it was fantastic author who have write the book in such remarkable way makes the content within easier to understand, entertaining way but still convey the meaning completely. So , it is good for you because of not hesitating having this any longer or you going to regret it. This excellent book will give you a lot of rewards than the other book get such as help improving your expertise and your critical thinking way. So , still want to hold off having that book? If I were you I will go to the publication store hurriedly.

Lawrence Abbate:

You could spend your free time to see this book this publication. This Industrial Data Communications, Fifth Edition is simple to create you can read it in the park, in the beach, train in addition to soon. If you did not get much space to bring typically the printed book, you can buy the particular e-book. It is make you much easier to read it. You can save often the book in your smart phone. Therefore there are a lot of benefits that you will get when you buy this book.

Joan Morris:

This Industrial Data Communications, Fifth Edition is brand-new way for you who has fascination to look for some information as it relief your hunger of information. Getting deeper you upon it getting knowledge more you know or perhaps you who still having tiny amount of digest in reading this Industrial Data Communications, Fifth Edition can be the light food for you because the information inside this book is easy to get by anyone. These books create itself in the form that is reachable by anyone, sure I mean in the e-book application form. People who think that in book form make them feel sleepy even dizzy this publication is the answer. So there is absolutely no in reading a reserve especially this one. You can find what you are looking for. It should be here for anyone. So , don't miss that! Just read this e-book style for your better life as well as knowledge.

**Download and Read Online Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw
#ZVLW47MXJ50**

Read Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw for online ebook

Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw books to read online.

Online Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw ebook PDF download

Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw Doc

Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw Mobipocket

Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw EPub

ZVLW47MXJ50: Industrial Data Communications, Fifth Edition By Lawrence (Larry) M. Thompson, Tim Shaw