## Section 1. Building Automation **Building Automation Interoperability** Chapter One Building Automation Communication . Automated Building Systems **Control Concepts** Chapter 26 Control Strategies . Control Logic . Supervisory Control . Building System Two Management Chapter Data Communication 50 Three Data Communication • Open System Interconnection (OSI) Model • Network Architecture • Media Types • Common Building Automation MAC Layers

Section 2. LonWorks Systems			
Chapter Four	LonWorks System Overview  LonWorks Development * LonWorks Technology	_84	
Chapter Five	LonWorks Network Architecture and Infrastructure  LonWorks Network Architectures • LonWorks Network Infrastructure • Infrastructure Planning	100	
Chapter Six	LonWorks Nodes  LonMark Certification * LonWorks Node Hardware Components * LonWorks Node Software Components * LonWorks Node Types	_118	
Chapter Seven	LonWorks Network Programming  LonWorks Network Programming • Network Variable Bindings • Device Commissioning	138	
Chapter Eight	LonWorks Network Testing  Testing and Verifying the Network • Optimizing Network Performance	162	
Chapter Nine	LonWorks Network Maintenance  Network Maintenance Tasks • Network Documentation	178	

Eight	Testing and Verifying the Network • Optimizing Network Performance	
Chapter Nine	Network Maintenance  Network Maintenance Tasks • Network Documentation	178
Section 3	. BACnet Systems	
Chapter Ten	BACnet System Overview  BACnet Systems • Information Architecture • System Architecture • Testing and Certification	190

Chapter Eleven	BACnet Transports and Internetworking  Typical BACnet Physical Architecture   BACnet LAN Types   MS/TP Nodes and Token Passing   BACnet Network Layer   BACnet Over IP Infrastructures	216
Chapter Twelve	BACnet Basic Objects and Core Services  BACnet Objects • Basic Objects • Special Function Objects • Object Access Services • Remote Device Management Services	246
Chapter Thirteen	BACnet Alarming, Scheduling, and Trending  Change-of-Value Notification • Alarming • Scheduling • Trending	270
Chapter Fourteen	BACnet Special Applications  Special Application Objects and Services	290
Chapter Fifteen	BACnet Installation, Configuration, and Troubleshooting  Network Tools • Installation • Configuration • Troubleshooting	304
Section 4	. Building System Integration	
Chapter Sixteen	System Integration  Building Automation System Example • Control Scenario: Opening the Building on a Regularly Scheduled Workday • Control Scenario: Demand Limiting	328
Chapter Seventeen	Cross-Protocol Integration Cross-Protocol Integration Cross-Protocol Integration	346
Chapter Eighteen	Future Trends in Building Automation  Industry Trends • Networking Trends • Open Protocol Trends • Control Strategy Trends • Automating Existing Buildings	362
	Appendix	379
	Glossary	391
	Index	399