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a hard copy companion to the elearning course that serves as a practical

guide to the principles and characteristics of controls and how to apply them in the use selection specification and design of controls systems

the purpose of this text is to provide the environmental control professional with a clear understanding of the operation of electrical and electronic components and systems that are utilized in control functions

in the eight years since the publication of the first edition of this book there have been quantum changes in the automated temperature control atc industry due to the widespread growing use of direct digital control ddc systems the fully updated second edition fully addresses these technology changes from equipment characteristics operation to troubleshooting maintenance to training of operating maintenance personnel the full range of topics pertinent to the effective operation of all types of hvac control systems currently in use today are explored including equipment to control interactions control system set up functions local loop to building automation system interfaces performance prediction assessment operational parameters maintenance testing

get the industry standard updated for a new age of construction for more than fifty years construction has been the cornerstone reference in the field for architecture and construction professionals and students this new edition now called olin s construction after its original author is an invaluable resource that will provide in depth coverage for decades to come you ll find the most up to date principles materials methods codes and standards used in the design and construction of contemporary residential commercial and institutional buildings organized by the masterformat 2004 edition this edition includes more than 1 200 informative illustrations including 150 new images features new information on sustainability and construction management reflects the expanded adoption of the icc codes addresses everything from site preparation to concrete finishing masonry design to plastic fabrications waterproofing to sprinkler systems air conditioning to heat conveyance join the generations who have relied on this book to provide the vital descriptive information on how to design buildings detail components specify materials and product and avoid common pitfalls

hvac heating ventilation and air conditioning controls and sensors are devices used to regulate the temperature and air quality of indoor spaces they are used in a variety of settings including residential commercial and industrial buildings hvac controls and sensors work together to provide a comfortable and safe environment for occupants the main components of hvac systems are the thermostat which measures and regulates the temperature and the air handler which is responsible for circulating and conditioning the air hvac controls and sensors are also used to monitor

humidity levels and to adjust fan speeds in order to maintain the desired comfort level hvac controls and sensors can be manual or automated manual controls are typically operated by a thermostat while automated controls are operated by a computer or other intelligent device automated controls can be used to program temperature levels and set times for the system to turn on or off in addition to temperature and air quality hvac controls and sensors are also used to monitor energy consumption this is done by measuring the amount of electricity used by the system and adjusting the fan speed accordingly this can help to reduce energy costs by ensuring that the system is only running at the necessary level

to the space in contrast maccluer 1989 proposed the new concept of proportional flux modulation control of heat flow rate not temperature

issues for jan 1935 contain a directory of heating piping and air conditioning equipment

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