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Refrigeration and air-conditioning is the subject which deals with the techniques to control the environments of the living and non-living subjects and thus provide them comforts to enable them to perform better and have longer lives.

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refrigeration deals entirely with the removal or transfer of heat, some knowledge of the nature and effects of heat is necessary for a clear understanding of the subject. NATURE OF HEAT Heat is a form of energy contained to some extent in every substance on earth. All known elements are ... AIR CONDITIONING ...

## **REFRIGERATION**

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### **Refrigeration and Air-Conditioning | ScienceDirect**

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### **Fundamentals of Refrigeration**

Basic Refrigeration Cycle. Principles of Refrigeration. Liquids absorb heat when changed from liquid to gas . Gases give off heat when changed from gas to liquid. For an air conditioning system to operate with economy, the refrigerant must be used repeatedly.

### **Air Conditioning - Basic Refrigeration Cycle - swtc**

AIR-CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY INSTITUTE, INC 2111 Wilson Boulevard, Suite 500, Arlington, Virginia 22201-3001 . DISCLAIMER This report was prepared as an account of work sponsored by the Air-Conditioning, Heating and Refrigeration Technology Institute, Inc. (AHRTI). Neither AHRTI, its research program

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The use of refrigeration, either directly or as part of an air-conditioning system, is essential to almost every branch of industry. There is a need for practitioners to familiarise themselves with the general principles and methods of refrigeration and air conditioning, and the types of plant and operation currently in use.

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Mr. Tomczyk is also the author of TROUBLESHOOTING AND SERVICING MODERN AIR CONDITIONING AND REFRIGERATION SYSTEMS. Mr. Tomczyk has 29 years of teaching experience at the Refrigeration, Heating, and Air-Conditioning Technology program at Ferris State University and is a member of many HVAC/R trade organizations.

### **Refrigeration and Air Conditioning Technology: John**

Air Conditioning refers to the treatment of air so as to simultaneously control its temperature, moisture content, cleanliness, odour and circulation, as required by occupants, a process, or products in the space. The subject of refrigeration and air conditioning has evolved out of human need for food and comfort, and its history dates back

### **HISTORY OF REFRIGERATION - NPTEL**

4 Refrigeration and air conditioning systems. (a) Introduction to refrigeration. (b) Refrigerants (c) Air-Conditioning processes 4.1. Refrigeration cycle " Evaporation, compression, condensation and expansion. 4.2. Layout diagram of refrigeration systems. 4.3. Types and applications of the various forms of refrigeration. 4.4.

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