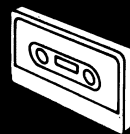




NEW YORK ACADEMY OF SCIENCES LECTURES ON AUDIOCASSETTE



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ATMOSPHERIC SCIENCES

LOW ALTITUDE WIND SHEAR AS A HAZARD TO AVIATION

John McCarthy, of the National Center for Atmospheric Research, in Boulder, describes the 1984 CLAWS (Classify, Locate, and Avoid Wind Shear) Project, which provided advisories to air-traffic controllers at Denver's Stapleton International Airport. The information improved safety and reduced delays in takeoffs. Code: 31-3

BIOMEDICAL SCIENCES

CHOLESTEROL AS A CARDIOVASCULAR RISK FACTOR

Robert I. Levy, of the Columbia University College of Physicians & Surgeons, reviews the evidence linking blood cholesterol levels to cardiovascular risk and will consider the questions of when and how to treat such high levels. Code: 12-18

ENGINEERING

TELEMETRY: A TOOL FOR SPACE EXPLORATION

O. J. Strock, of Fairchild Weston Systems Inc., in Sarasota, discusses the uses of telemetry - the transmission of measurements from a distance - in evaluating the performance of vehicles in the stratosphere and beyond. Code: 33-6

ENVIRONMENTAL SCIENCES

COMMUNICATION OF HEALTH RISK TO THE PUBLIC

Maria Pavlova, of the Environmental Protection Agency, explains how communication of the health risks associated with environmental pollution can help mitigate fears and promote understanding of the risk-assessment process. Code: 13-8

INSTRUMENTATION

LASER BIOMEDICAL INSTRUMENTATION: CURRENT DEVELOPMENTS AND FUTURE DREAMS

Leon Goldman, of the University of Cincinnati Medical Center, discusses biomedical applications of three lasers: the excimer, the free-electron beam, and the X ray. Code: 34-3

NEUROSCIENCE

THE REGULATION OF EXPRESSION OF OPIOID PEPTIDE GENES IN HETEROLOGOUS CELL SYSTEMS

Edward Herbert, of the Institute for Advanced Biomedical Research at the Oregon Health Sciences University, describes a method of determining how gene expression is regulated in different cell environments. Code: N-4

PHYSICAL SCIENCES

A NEW FORCE IN NATURE?

Ephraim Fischbach, Department of Physics, University of Washington, Seattle, Washington 98195. A recent reanalysis of the Eötös experiment led to the suggestion of a new intermediate range force in Nature. The motivation for this work is presented along with the results of this analysis. A discussion of ongoing experiments is also given. Code: 26-11

POLYMER SCIENCE

DEGRADABLE POLYMERS FOR BIOMEDICAL APPLICATION

Samuel J. Huang, of the University of Connecticut, explores the potentials of polymers as controlled release matrices for drugs, sutures, and implants. Code: 27-1

SCIENCE EDUCATION

SCIENCE POLICY AND EDUCATION POLICY: TWO SOLITUDES

Graham W. F. Orpwood, of the Science Council of Canada, considers why the realms of science education and science policy seldom interact. Code: SE-3

SCIENCE AND PUBLIC POLICY

SCIENCE AND THE PRESS

Dorothy Nelkin, of Cornell Univer-

sity, considers the impact of press coverage on the public's understanding of science and technology policies. Code: 44-17

STAR WARS: STRATEGY, TECHNOLOGY, ETHICS

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