

new products

Video disc recorder



Instant replay of television photomicrographs, time and motion studies, or other industrial or scientific imagery is possible with a video disc recording system being marketed by Ampex Corp.

The new Model DR-10 series of video disc recorders is especially designed for industrial and research applications where slow or stop motion playback is required for study of recorded television pictures. The range of possible uses is large, including studies of machines in operation, efficiency studies and research activities.

The basic DR-10 is the first disc recording system which can be upgraded to provide longer recording capacity and higher picture resolution. Disc recording will not replace tape, say Ampex officials, but it is much better suited for certain applications where rapid access and freeze framing are more important than recording time.

Ampex Corp.
401 Broadway
Redwood City, Calif. 94063
Circle No. 109 on Reader Service Card

Gentle processing

A system for concentrating delicate biologicals without denaturation has been announced by Amicon. Blood fractions, vaccines and extracts are concentrated five- to ten-fold in a single pass. The machine will process up to 100 liters an hour with typical outputs of two to four liters per hour.

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An inert gas at 10 to 20 pounds per square inch causes the dilute feed solution to flow through the system, in contact with a parallel stack of ultrafiltration membranes. Since neither pumping nor phase changes are involved, molecular structure of delicate biologicals is not altered.

Scientific Systems Div.
Amicon Corp.
21 Hartwell Ave.
Lexington, Mass. 02173
Circle No. 128 on Reader Service Card

Hydrocarbon analyzer

New emission standards make rapid analysis of ambient air and vehicle emissions necessary.

A new flame ionization analyzer, the Model 400 Hydrocarbon Analyzer by Beckman Instruments, Inc., equals the response speed of infrared instruments and is the first temperature-controlled total hydrocarbon analyzer that can monitor extremely low levels—less than one part per million—in the ambient air.

Beckman Instruments, Inc.
2500 Harbor Blvd.
Fullerton, Calif. 92634
Circle No. 130 on Reader Service Card

Minispectrometer

To understand masers, lasers, radar, magnetism and solid-state electronics a

college physics student should study the spinning motions of electrons in crystals. But present equipment for such studies is too costly for most colleges.

Bell Telephone Laboratories has developed a compact minispectrometer that costs a fraction of what the more elaborate microwave spectrometers usually used for electron spin studies cost.

The minispectrometer is compact because it uses a small solid-state diode as a microwave source instead of the vacuum tube and accompanying complex control circuitry used in conventional spectrometers.

Bell Telephone Laboratories
Murray Hill, N.J. 07971

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Ultrasonic energy transmitter

Much additional flexibility is given to applications of ultrasonics by a radical new way of transmitting ultrasonic energy through bundles of wires to places remote from the sonic motor or generator. The new system was introduced by Fibra-Sonics Inc.

Main advantage of the new system is that the need for large, bulky apparatus near the work area is eliminated. Power levels ranging from microwatts to kilowatts can be sent over fiber bundles to where the energy is required.

Applications might include die-casting, improved wire drawing and plastic welding almost anywhere. One of the most important uses may be in cleaning out human arteries, removing blood clots, embolisms and other obstructions.

Fibra-Sonics, Inc.
309-311 W. 23rd St.
Chicago, Ill. 60616

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