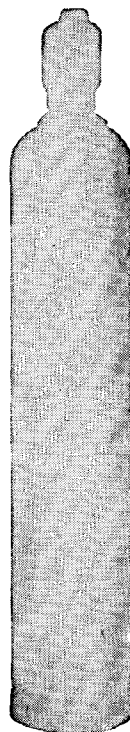


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New...

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provides end-point control through continuous stream analysis

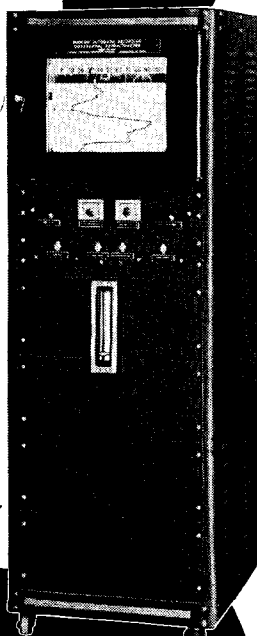
For laboratory, pilot plant, or process — where refractive index of process yield is an indication of product analysis. The new PHOENIX Automatic Process Refractometer provides accurate quality control of chemical and petroleum yields. A small quantity of the desired fluid (liquid or gas), placed in a comparison cell, acts as the reference for a zero-point determination of refractive index between the reference and process fluid. Refined, self-nulling optical-servo system requires no electrical feedback from the process. The small, continuous flow of process fluid through one half of the reference cell provides all control stimuli.

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► **FREE BULLETIN R1000 . . . describes six different models available. A functional block diagram and a technical description of the optical-servo system are included. Yours on request.**

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NEWS

Thursday Morning

Pyridopyridazine-5,8-dione as an Indicator for Iron III. D. W. GIER and C. A. VANDERWERF

Response of Polarized Metal Electrodes to Certain Ions and Analytical Applications. M. J. KATYAL and GEORGE GORIN
Study of the Colorimetric Determination of Biuret. J. D. SLATER and J. S. HILL

Thursday Afternoon

Emission Spectrographic Determination of Certain Lubricating Oil Addition Elements. W. N. JACOBSON, V. J. BARGER, and B. T. CAMPBELL

Determination of Water in Liquefied Petroleum Gases by an Extraction-Karl Fischer Method. J. E. PUCKETT, H. A. PRICE, M. D. GRIMES, and B. J. HEINRICH

Identification of 3-Methylthiophene in Wilmington, California, Crude Oil by Gas-Liquid Chromatography. C. J. THOMPSON, H. J. COLEMAN, C. C. WARD, and H. T. RALL

Mass Spectrometric Analyses of Medium-Viscosity Lubricating Oils. M. L. ANDRE and M. J. O'NEAL, JR.

Determination of Water Extractable Sodium in Liquid Hydrocarbons. K. H. NELSON and M. D. GRIMES

Flame Photometric Determination of Boron in Gasoline. S. P. MADDEN and V. J. BARGER

Friday Morning

High Temperature Gas Chromatography. K. H. CLOUGH

Quantitative Evaluation of Hydrogen Sulfide, Sodium Hydrosulfide, and Triethylamine Hydrosulfide Reagents. J. O. PAGE and A. R. MACHEL

Band Intensities of Methyl and Olefin Groups in Polyethylenes. R. S. SILAS

Differential Thermal Analysis as a Means of Identifying Cement Additives. N. F. CARPENTER, J. F. EBERHARD, and A. F. BEALE, JR.

Application of Organic Solvent Extraction to the Flame Spectrophotometric Determination of Aluminum. H. C. ESHELMAN, J. A. DEAN, OSCAR MENIS, and T. C. RAINS

Analysis of Light Hydrocarbon Mixtures by Gas Chromatography. D. E. SMITH, J. A. FAVRE, and W. J. HINES

LSU Symposium Reviews Analytical Methods

The Eleventh Annual Louisiana State University Symposium on Modern Methods of Analytical Chemistry will be held at LSU's Coates Chemical Laboratories, Jan. 28 to 31. Papers are scheduled to cover the latest developments in the various modern techniques that are of wide current analytical interest. Each speaker is allotted from two to four hours in which to present a comprehensive discussion, and additional time is provided for informal question and answer periods. An exhibit of equipment will accompany the symposium.

Registration fee for the symposium, including tickets for the mixer and banquet, is \$16. For students, the registration fee, not to include banquet tickets, is two dollars. Correspondence