

## 12th Modern Industrial Spectroscopy Course

Lecturers from the Departments of Physics and Chemistry of Arizona State University and invited speakers from industry will conduct sessions at the Twelfth Annual Course in Modern Industrial Spectroscopy at Arizona State University, Tempe, Arizona, Aug. 14-25, 1967.

Particularly designed for chemists, metallurgists and others from industrial laboratories which make use of spectrographic equipment, this intensive course of lectures and practical work will serve to train personnel to staff these laboratories.

Lectures each morning will be devoted to the fundamentals of spectroscopy. Instrumentation and applications of the various techniques will be included.

Laboratory and discussion periods will also be included.

Fee for the two-week course is \$225. Inquire: Dr. Jacob Fuehs, Director, Modern Industrial Spectroscopy, Arizona State University, Tempe, Arizona 85281.

## Carnegie Offers Automatic Control Course

Carnegie University this summer is offering two special courses for engineers and scientists who want to keep abreast of advances in the fields of automatic control and optimization.

W. W. Ellis, director of post-college professional education, College of Engineering and Science, has announced that a course on analysis and design for automatic control, with emphasis on process design and dynamics of process systems, is scheduled for July 18-28, and one on optimal decision-making for August 7-11.

The ten-day program on process systems focuses on analysis of linear systems by Laplace transform methods, feedback concept and automatic process control, dynamics of process systems, and use of analog computer for system studies. The course includes some 70 hours of classroom work, laboratory projects and special lectures. Fee is \$375.

The one-week course in optimal decision-making covers optimization theory and techniques, including linear, dynamic and geometric programming, and applications of the calculus of variations. The fee is \$250 and covers six hours of lecture and up to three hours of outside work a day.

Further information may be obtained by contacting William W. Ellis, Director of Post-College Professional Education, Carnegie University, Pittsburgh, Pa., 15213.

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