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Questions

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CHEMISTRY—What do radar engineers mean by a "lossy" material? p. 245.

MEDICINE—How is salt intake related to high blood pressure, according to one scientist's studies? p. 247.

TECHNOLOGY—What are metachromic dyes? p. 250.

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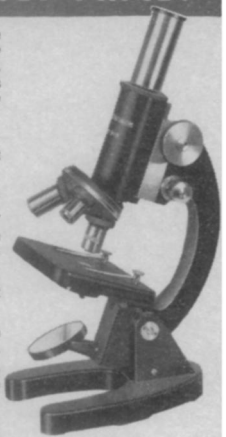
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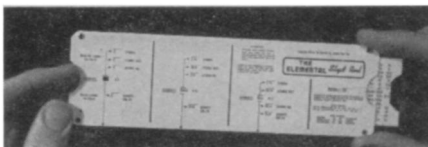
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ENGINEERING

Man Must Remain Part of Future Aircraft Systems

► MAN'S REASONING, judgment and adaptability to various situations are the three main factors that will keep the human element in airplanes of the future.

In addition to intellect, man has other properties that probably will not be replaced by automatic machines. The human body is more resistant to certain adverse flight conditions, such as vibration, heat and pressure, James W. Raeke, human engineering analysis section, Northrop Aircraft, Inc., told the Society of Automotive Engineers national aeronautic meeting in New York.

He warned, however, that aircraft planners must not over-rate man, and expect him to perform tasks beyond his ability "at a rate and in an environment dictated by the machine."

In some respects "man's tolerance to various stress conditions is quite critical," but his ability to adapt makes it desirable to include him as part of future aerial weapon systems.

Mr. Raeke said one of two approaches must be chosen: "either the man must give way to electronic control systems, or the limits of his tolerance must be found and aircraft performance programmed to stay within his capabilities."

Science News Letter, April 19, 1958

Do You Know?

Seismic soundings, the first ever made at the bottom of the world, proved that there is land above sea level at the *South Pole*.

The modern *lead* pencil is capable of drawing a line 35 miles long and can write an average of 45,000 words.

Probably the most significant recent advance in the recording of TV programs is the development of the magnetic video *tape recorder*.

A prevalent disease at the beginning of the twentieth century, *diphtheria* is now in full regression throughout the world.

The Germans developed *atabrine*, a major anti-malaria drug in World War II.