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Application makes possible important advances in physics, chemistry, and engineering.

Self-Regulating Systems in Populations of Animals: V. C. Wynne-Edwards

A new hypothesis illuminates aspects of animal behavior that have hitherto seemed unexplainable.


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Peptide Synthesis from Amino Acids in Aqueous Solution: C. Ponnamperuma and E. Peterson

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COVER

Components of a laboratory ultrahigh vacuum system used to study chemical reactions between simple gases and atomically clean metal or semiconductor surfaces. (Left to right) Reaction bulb for preparing these surfaces, a bakeable thermistor pressure gage, and a glass valve. See page 1529. [Walter B. Halstead, General Electric Research Laboratory]