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Very thin glass fibers were studied microscopically,
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During the irradiation, extremely thin fibers de-
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Office of Technical Services

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Trans. of unidentified article.

DESCRIPTION: *Photochemistry, *Ammonia, Photolysis,
Monochromatic light, *Ultraviolet radiation, Catalysts,
quartz, Sodium, Reaction kinetics.

Photochemical decomposition of ammonia was studied
over a range of wavelengths of monochromatic light
(2500-3100 Å) (violet rays). The number of adsorbed
quanta by decomposed molecules is 2 to 2.5; it is in-
dependent of the pressure, which is 1-10 mm Hg, and
of the velocity of decomposition is independent of the
temperature between 10° and 20° C. It is independent
of the pressure of quartz surface and independent of the
(Chemical Abstracts, 57, 2, 69-71) (over)

C227639

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3 refs.

Order from SLA \$2.60

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Trans. of [Kolloid-Zeitschrift] (West Germany) 1953,
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DESCRIPTORS: *Cylindrical bodies, *Fluids, *Spheres
*Spheres, Surface area, Mathematical analysis, Sur-
face tension, Colloids, Particles, Friction.

It was shown that an elongated circular cylinder is in
neutral equilibrium with respect to small expansions
or contractions on the cylinder surface if the expanse
of the expansion or contraction in the direction of the
axis of the cylinder is greater than the radius of the
cylinder, but is stable if the longitudinal expansion of
the disturbances is smaller than the cylinder radius.
(Author)

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