Power Engineering

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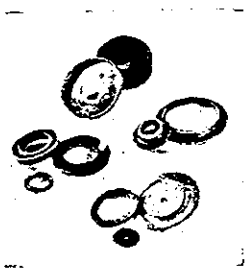
PLAINTIFF'S EXHIBIT
G-71

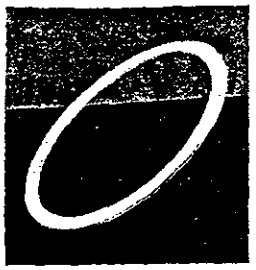
CHICAGO, ILLINOIS



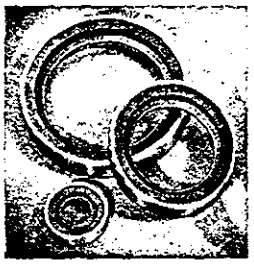
GARLOCK BITAN Leather Cups, Packings and Gaskets



GARLOCK CHEVRON Hydraulic Packings



GARLOCK GUARDIAN Asbestos-metallic Gasket



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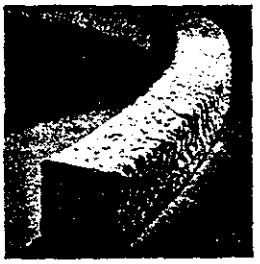

GARLOCK LATTICE-BRAID Rod and Shaft Packings

**BITAN*
CHEVRON*
GUARDIAN*
KLOZURE*
LATTICE-BRAID***

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OBITUARIES

(Continued)

of hydraulic turbine. He was an expert on butterfly valves and hydraulic turbine governors, being a recognized authority on speed regulation and related subjects.

In addition to contributing articles to the technical press, Mr. Pfau presented a number of papers before the American Society of Mechanical Engineers, of which he was a member. He will long be remembered for his *Hydraulic Handbook* dealing with principles of design and practical problems of speed and pressure regulation.

Of high international reputation in his day, Mr. Pfau lived through a long and interesting span of water power development — from a time when water wheels of a couple of thousand horsepower were considered large to present day achievements, when 115,000-hp turbines for Hoover Dam, and 140,000-hp units for the Kemano plant in British Columbia were almost taken for granted.

New ENGINEERING BOOKS

A New Theory of Gravitation, by Dr. Jakob Mandelker; First Edition; 25 pages; 5¾ by 8¾ in.; cloth; published by the Philosophical Library, 15 E. 40th Street, New York, N. Y.; 1951. Price $2.75.

This little book, only 25 pages, develops a new theory of gravitation which harmonizes with the polar nature of electrostatic and magnetic fields. The fundamental property of all forces encountered in nature is bipolar manifestation. Whether mechanical stresses of tension or compression or electric or magnetic forces of attraction and repulsion, they always evidence themselves in pairs of a dual character. One exception, however, or one apparent exception, seems to exist in gravitation, that mysterious force by which masses and material bodies attract each other. The correlative force of repulsion seems not to exist in gravitation.

In electricity and magnetism we find two types of forces, negative and positive. If a pair is of the same sign, they repel each other; if they are of different signs, they attract each other. When we try to apply the electric and magnetic analogy to gravitation, however, we encounter only attraction.

Along with many others, Dr. Mandelker has given this question a great deal of thought. Indeed, his studies along this line have enabled him to put forth not only this new theory of gravitation, but also, in 1949, a new system of what he calls energy mechanics — a system in which the central inertia notion of classical mechanics, the Mass M, has been replaced by the superior energy concept of matter, MC^2. This work