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Construction of the New Pressure-Insulated Electrostatic Generator at the State University of Iowa (Abstract)

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THE ELEMENTS OF SURFACE TENSION

(ABSTRACT)

JOHN A. ELDRIDGE

Many of our ordinary statements about surface tension are true only when properly qualified. Common laboratory experiments give correct values only when correction terms are used. A number of surface tension paradoxes will be given.

STATE UNIVERSITY OF IOWA,
IOWA CITY, IOWA.

CONSTRUCTION OF THE NEW PRESSURE-INSULATED
ELECTROSTATIC GENERATOR AT THE STATE
UNIVERSITY OF IOWA

(ABSTRACT)

A. ELLETT AND G. J. PLAIN

The electrostatic generator will be housed in a new underground laboratory connected to the physics building by a tunnel. Since last fall work has been proceeding on the construction of the generator inside of the $2\frac{1}{2}'$ by $50'$ steel tank. This pressure vessel will allow operation of the generator at pressures up to 8 atmospheres absolute. An intermediate electrode has been introduced. Two cotton fabric woven-endless belts with a linear speed of about $5,000'$ per minute will charge the high potential electrode. The $22'$ accelerating tube is being constructed of short porcelain sections with steel spinings serving as accelerating electrodes.

STATE UNIVERSITY OF IOWA,
IOWA CITY, IOWA.

RIGIDITY MODULUS FOR BETA-BRASS SINGLE
CRYSTALS

(ABSTRACT)

WALTER A. GOOD

The change due to "disordering" in beta-brass is being followed for the dynamically determined rigidity modulus of crystals of beta-brass. By combining this work with that of Rinehart a full set of elastic parameters for beta-brass is obtained.

STATE UNIVERSITY OF IOWA,
IOWA CITY, IOWA.