

Calcification in Biological Systems

AAAS Symposium Volume No. 64

Edited by R. F. Sognnaes

July 1960

526 pp., 283 illus., \$9.75,
AAAS members' cash orders, \$8.50

This monograph deals comprehensively with the mechanism of mineral deposition throughout the animal kingdom. Current research approaches, findings and hypotheses are presented by investigators representing disciplines ranging from physical chemistry and histochemistry to electron microscopy and tissue culture. The central theme revolves about the question, "Why do certain normal and pathological tissues calcify?"

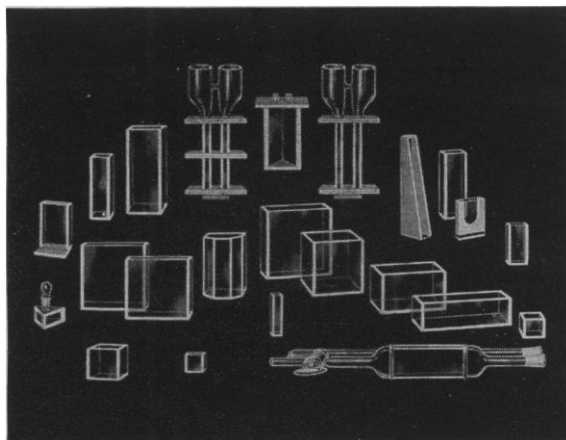
The 22 chapters are organized in an evolutionary sequence; (1) calcification within unicellular organisms and various lower animals, that is, the shells of the mollusc, the gastrolith and exoskeleton of the lobster, the mineralizing leg tendon of the turkey and the otolithic organ of the rat; (2) elements and mechanisms involved in the calcification of cartilage, bone, dentin, enamel and various pathological concretions; (3) experimental observations in organ transplants and in tissue culture; and culminating with (4) the physical and chemical nature of and relationship between the ultimate inorganic and organic building blocks most typical of normal calcification in the human organism.

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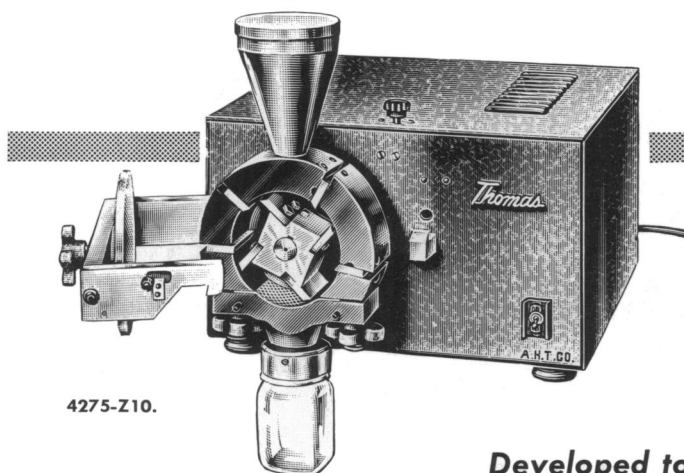
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Door. Handwheel clamping screw seals heavy steel plate door against the face of the mill. When released, door pivots on an aluminum bracket for full diameter access to the grinding chamber. *Safety electrical interlock disconnects motor when door is open.*

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