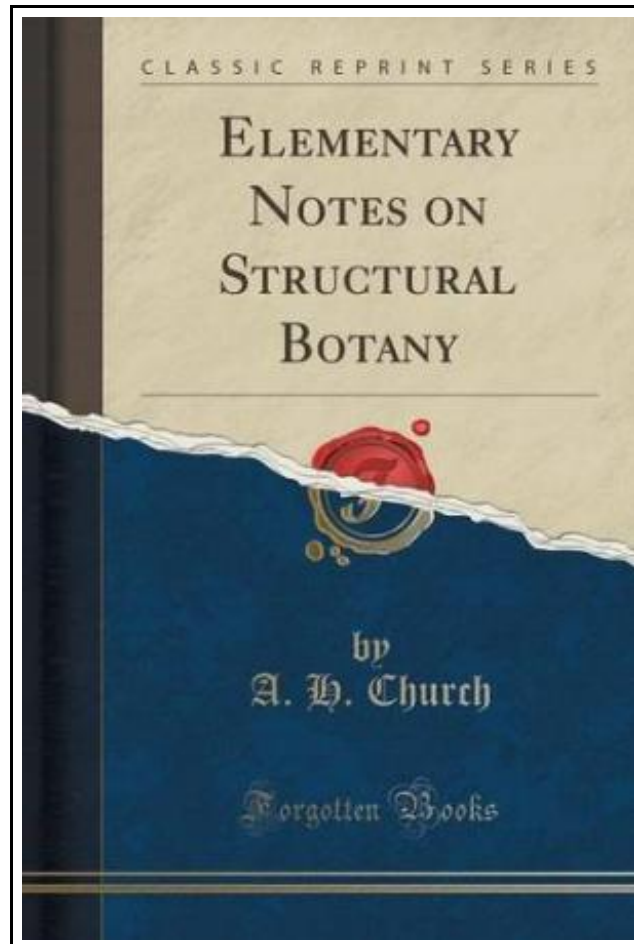


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from *Elementary Notes on Structural Botany* A typical Land Plant, as derived from submarine vegetation, is a more complex organism in that the first problem is how to obtain sufficient Nitrates, Phosphates, and other compounds as food-salts to carry out proteid-synthesis, when these are only present in the soil. This involves the necessary differentiation of an absorbing root in the ground, with subaerial shoot; the function of the latter being to produce and display as much body-surface as possible to air and sunlight. Since the absorbing cells are in a solution of soil-water (often little better than tap-water), a current has to be maintained from the roots to the leaves (Transpiration-current), and enormous quantities of water require to be evaporated at the surface of the leaves (Transpiration). Hence the Primary distinction in land-plants of Leaves, Stem, and Root: the first being the essential photosynthetic and proteid-synthetic regions of the organism. The Leaf is the Laboratory of the Plant; with conductive system leading to it, as also away from it, in the form of definite strands of vascular tissue known as Vascular Bundles (V.B.) of Xylem and Phloem. The main axis normally grows erect, at right angles to the surface of the ground, to give optimum space-distribution; bearing leaves as laminate extensions of the soma, and branches repeating similar organization; thus giving a tree habit of diffused growth spread over considerable space, as opposed to the concentrated and condensed body of a locomotile animal. The Plant-axis also exhibits continuous growth, by definite growing-points , which may go on producing new leaves and new axes so long as nutrition is satisfactory; i.e. the plant continues to grow at...



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