



## Elementary Notes on Structural Botany (Classic Reprint) (Paperback)

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By A H Church

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...



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