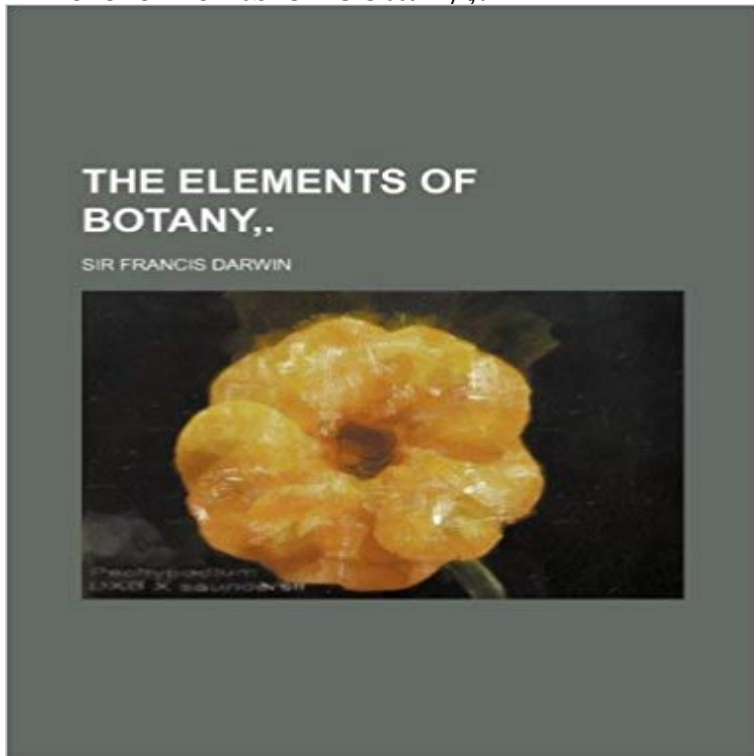


The elements of botany,.



This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1896 Excerpt: ...wood stained pink with eosin is striking. The fact that the fluid travels in the xylem is still better seen in a young succulent stem where, on splitting the plant, the vessels filled with eosin show out as delicate pink streaks. There are various arrangements by which we can accurately measure, from minute to minute, the amount of water which a cut branch is absorbing. With an instrument of this sort it is easy to prove that the amount of absorption depends on the amount of evaporation going on from the leaves. Thus if the leaves are placed under a bell jar, and therefore in damper air, the instrument records the fact that the absorption is less, and the readings quickly rise again when the bell is removed. The absorption may be diminished by cutting off some of the leaves and thus diminishing the total amount of evaporation. In this sort of way it can be shown that the water-supply of a leaf by the vessels is a self-regulating mechanism; that rapid evaporation increases the upward current, so that the greater the loss the greater is the supply. In thinking about the transpiration from a leaf surface it must be remembered that the evaporating surface is much greater than the surface which is visible, because the spaces in the spongy tissue communicate with the outer air through the stomata, so that the surface of each constituent cell of the spongy tissue evaporates, not so much as though it made part of the external surface, but still considerably. It will be more easily realised how porous a thing the epidermis must be, when it is remembered that there are thousands of stomata on a square inch. Leaf-fall. That the leaves of many trees fall from the tree in autumn is a familiar fact, but the physiology of the

process is not so well known. It is easy to pr...

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