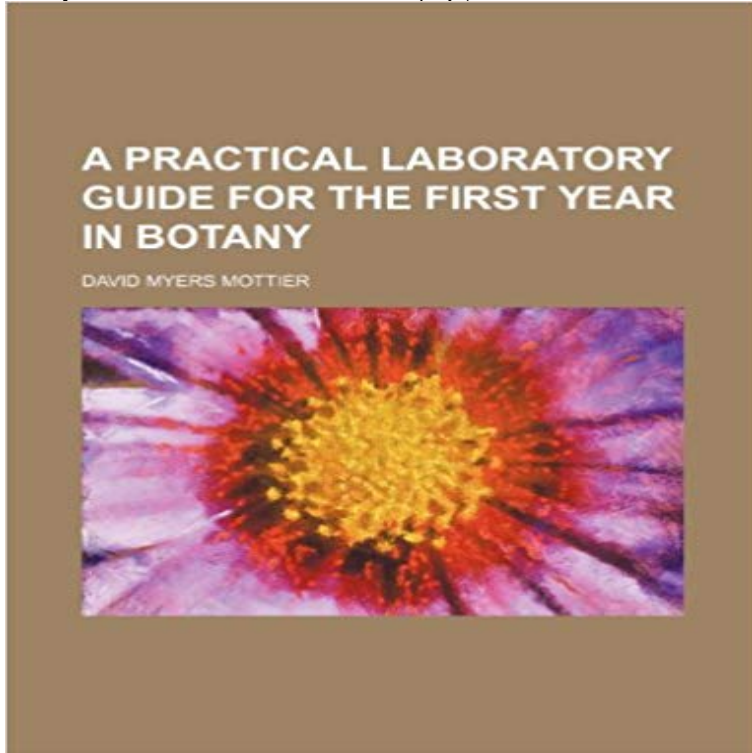


## A practical laboratory guide for the first year in botany



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. 1920 Excerpt: ...in different stages of development attached to the bottom of the cup by unicellular stalks. c. Unicellular hairs distributed among the gemmae. These secrete mucilage. Draw an outline of the section. d. With h. p. observe two or three stages in the development of the gemmae. Draw. Note also the mucilage-bearing hairs. What is their function? Draw. D. The Archegoniophore (Female Branch). 1. The archegoniophore consists of a star-shaped disk borne upon a slender and greenish or purplish stalk. With s. m. observe: a. The rounded rays, each with a groove running lengthwise on the under side. How many rays are there? b. Their surface, marked by the characteristic rhombic areas. c. The two grooves or channels extending along the stalk on the anterior side. Numerous rhizoids traverse the grooves. They are seen on pulling the stalk in two. Draw a part of the thallus showing an archegoniophore attached. 2. Cut transverse sections of the stalk and observe with 1. p.: a. The outline of the section. b. The infolded margins corresponding to the two channels. The rhizoids traversing the channels will be seen in cross sections. What part of the stalk corresponds to the lower side of the flat ribbon-like thallus? Draw a section in outline. 3. Cut off a star-shaped disk and observe on the under side: a. The central insertion of the stalk. b. Between the rays the delicate whitish (in fresh material) and fringed membranes, the perichaetia. Compare the number of perichaetia with the number of rays. Between what rays is a perichaetium wanting? 4. The Sporophyte. Enclosed by each perichaetium, one or more dark or opaque bodies, the sporophytes. When fully mature the sporophytes burst,

liberating a yellow flocculent mass of spores and elaters. Draw the disk as seen from below. 5. ...

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