this beautiful art is to fix certain coloring-matters uniformly and pernâmently in the fibres of wool, silk, cotton, and other materials. Coloring-matters which effect this without the intervention of a third substance, or mordant, are called substantive colors, while those which require such aid are called adjective. The exact way in which dye-stuffs act upon fibrous materials has not yet been investigated as fully as it deserves; the generally received opinion is that the fibre has an affinity for the coloring-matter in the case of substantive dyes, and for the mordant, which in its turn has an affinity for the coloring-matters of adjective dyes. Another opinion is, that the fibres contain pores which absorb the dye, forming an insoluble lake in the case of the mordanted dyes. However this may be, it is certain that different materials take dyes in different proportions. Thus silk and wool take the aniline dyes in the most perfect manner, but cotton requires the intervention of a powerful mineral or animal mordant. The operations that take place in dyeing are, mordanting, ageing, dunging, dyeing, and clearing. The principal mordants used are alumina, extensively employed for woollens and silks in the form of alum and cream of tartar; and peroxide of iron, which is much used in the form of protacetate for logwood and madder. Peroxide of the and several other metallic oxides are used for the same purpose; also albumen, caseine, and other animal substances in different forms. After the fabric has been mordanted, it is generally hung up in a room through which a current of steam and airis passing, by means of which the union between the fibre and the mordant is quickened very considerably. The citch is then dunged, in order to remove the superfluous mordant ont absorbed by the fibre. This was formerly effected by assing the fibre through a mixture of owdung and water; but this filthy opration has been superseded in a great measure by the introduction of while are termed dung substitutes. In principal dung substit