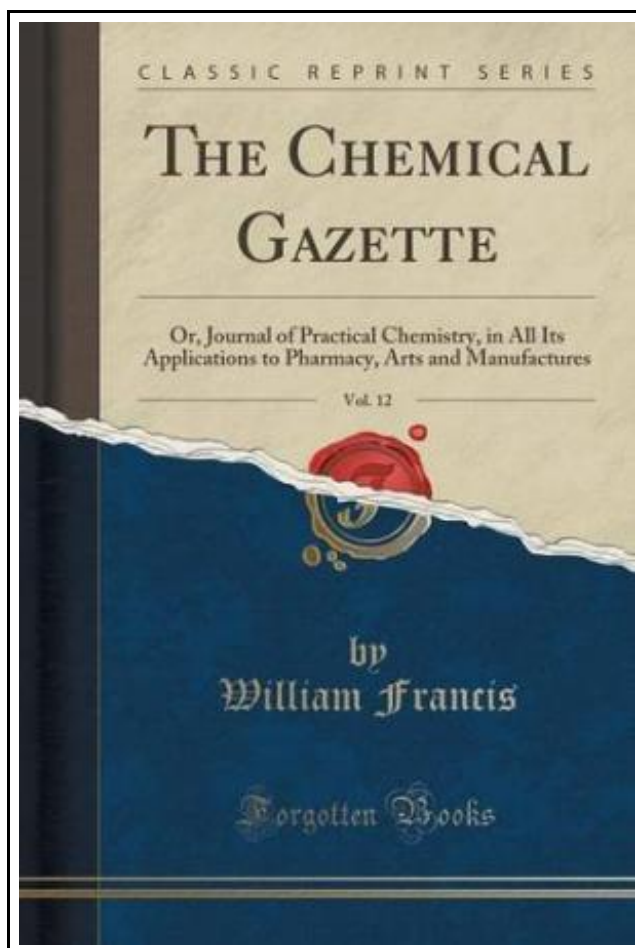


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Chemical Gazette, Vol. 12: Or, Journal of Practical Chemistry, in All Its Applications to Pharmacy, Arts and Manufactures Saponine was first found in the root of *Saponaria officinalis*. Bley afterwards discovered a peculiar substance in the root of *Gypsophila Struthium*, which he named struthiine. Bussy ascertained the identity of struthiine with saponine. Fremy has instituted experiments to ascertain the composition of saponine. The numbers which he obtained by analysis agree with the formula $C_8H_{10}O_4$ or $C_8H_{10}O_5$. Fremy also discovered a substance in the fruit; it was insoluble in aether; its watery solution frothed strongly, and when heated in presence of acids became converted into an acid, which is insoluble in water, and separated in the form of white flakes. This acid, which is insoluble in water, and separated in the form of white flakes. This acid, which according to Fremy furnishes crystallized salts with alkalies, and which is also formed by the action of alkalies upon the substance obtained from the horse-chestnut, was named by him aesculic acid. As the degree of solubility of saponine in water, alcohol, and aether is the same as that of the substance obtained from the horse-chestnut, and as the frothing watery solution of saponine, when heated after the addition of a mineral acid, is also decompose with separation of white flakes, Fremy has regarded the substance obtained from horse-chestnuts as identical with saponine. Fremy gives for aesculic acid the formula $C_8H_{10}O_5 = 2(C_8H_{10}O_4 \text{ saponine} - H_2O) - O_2$. As the authors did not succeed in preparing from saponine an acid possessing the properties of Fremy's aesculic...



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