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Chemistry for Photographers (Paperback)

By Charles Francis Townsend

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.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. 1902 edition. Excerpt: .of the fingers with the fixing bath whilst toning is in progress. The chemistry of the toning process is as follows: In the alkaline solution the gold chloride is reduced first of all from auric chloride (AuCl_3) to aurous chloride (AuCl); then an atom of gold is deposited, an atom of silver taking its place, thus, Aurous chloride. Silver. Silver chloride. Gold. $\text{AuCl} + \text{Ag} \rightarrow \text{AgCl} + \text{Au}$. From this it is clear that other metals can be used for toning instead of gold. With a platinum toning bath, for instance, platinum is deposited in the place of the silver, and with a lead toning bath, 94 GELATIN O-CHLORIDE PAPER. lead is exchanged for the silver in the print. The following platinum toning bath is recommended by Liesegang: --Potassium chloroplatinite, .1 gram, J grain. Nitric acid, .5 c.c. . 2 minims. Water, . 100



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