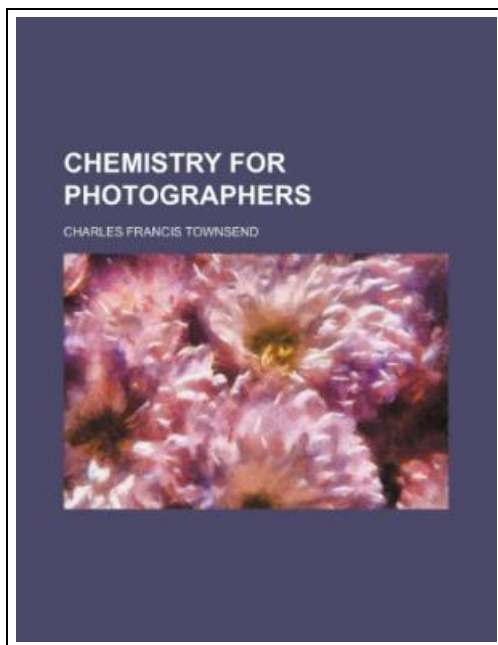


## Chemistry for Photographers



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## CHEMISTRY FOR PHOTOGRAPHERS



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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 ( $\text{AuCl}_3$ ) to aurous chloride ( $\text{AuCl}$ ); 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 . 1 oz. Gelatino-chloride and collodio-chloride papers are emulsions of silver chloride and an organic salt with gelatin in the one case and with collodion in the other. These papers are generally known as printing-out papers. W. K. Burton s formula for gelatino-chloride emulsions is as follows: --A. Ammonium chloride, 3 5 grams, . 53 grains. Gelatin, . 27 . 420 Distilled water, . 850 c.c. . 30 ozs. Soak the gelatin and ammonia chloride in the water for an hour and dissolve in a water-bath; then add Silver nitrate, .97 grams, . 150 grains. Distilled water, .14 c.c. . oz....



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