THE PHOTOGRAPHIC IMAGE. A THEORETICAL AND PRACTICAL TREATISE OF THE DEVELOPMENT IN THE GELATINE, COLLODION, FERROTYPE AND SILVER BROMIDE PAPER PROCESSES

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The photographic image. A theoretical and practical treatise of the development in the gelatine, collodion, ferrotype and silver bromide paper processes by P. C. Duchochois

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P. C. DUCHOCHOIS

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THEORETICAL AND PRACTICAL TREATISE

OF THE

DEVELOPMENT

IN THE

Gelatine, Collodion, Ferrotype and Silver Bromide Paper Processes

BY.

P. C. DUCHOCHOIS, Photographer.

The development is in reality an art and a science combined: the Art consists in getting gradation, the Science in making your solutions to obtain it.

Captain W. DE W. ABNEY.

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1891. H.



PREFACE.

We have endeavored to give in this work all the theoretical and practical instructions necessary to guide one in the operation of developing the photographic image, and we have described the processes employed to finish the cliches which is the complement of the operation.

We were led to write it for the reason that in the text-books published since a few years the development, although well described, is not treated, we think, with the importance it merits. It does not suffice to give formulas and to explain their use in some cases, their applications should be illustrated by examples, from those examples simple rules should be deducted and the special action of each of the chemicals employed must be pointed out in order that one understands

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the results to which give rise the modifications made in the constitution of the developing solution.

Not too many instructions can be given, for the development *is* the most difficult operation of photography, the value of the negative clichés and, as a consequence, the perfection of the pictures depending from the manner the latent image has been developed.

Indeed, it is among many amateurs and even professional photographers a common error to think that it can be done in a sort of mechanical or automatic way as it has sometimes been presented. There are probably not two subjects which can be well photographed by operating exactly in the same manner; and, to meet the various cases which present themselves, not only should the operator have studied the relation of the exposure-time to the lighting, or oppositions of lights and shades, and that of the development to the lighting, but, to the latter end, have a perfect knowledge of the action of the chemicals constituting the developing solution on the parts of the photo film impressed by light.

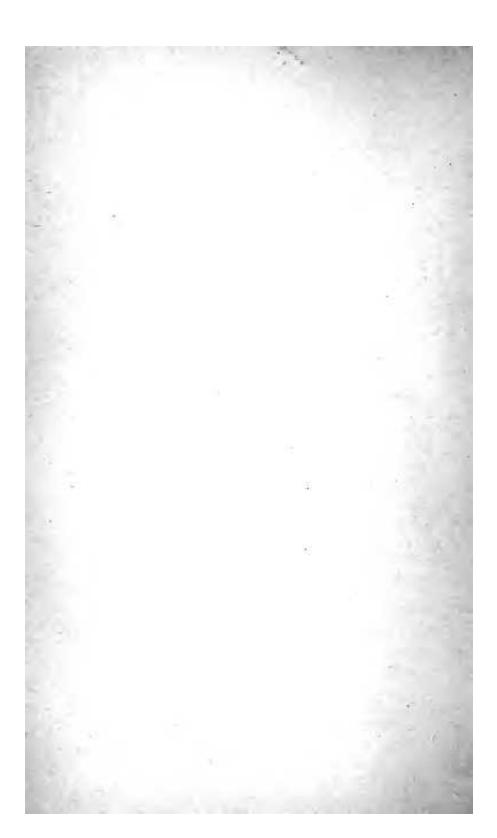
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Therefore we have written a purely theoretical chapter on the behavior of the chemicals employed, which we consider as a very important one and of which we recommend the lecture even to those having no notion of chemistry: for the theory is the base of practice—it explains the phenomena, it guides the operator; without knowing the principles one may occasionally produce excellent works, but generally the results are imperfect, and whenever one meets with failures, he is unable to trace them to their real cause.

We present this work to those interested in the art of photography, trusting it will smooth the path to the beginners and be useful to those who desire not to work in a mechanical manner.

P. C. D.

New York, October, 1891.



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