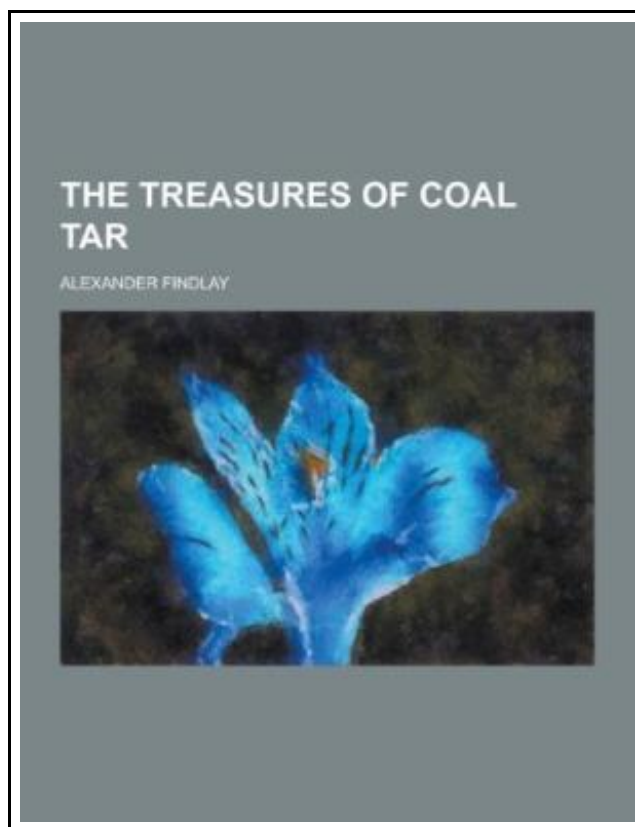


## The Treasures of Coal Tar



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## THE TREASURES OF COAL TAR



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Theclassics.us, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1917 edition. Excerpt: .closely related, as the formulae show:  $\gamma\text{C}_6\text{H}$ ,  $\text{NH}_2$   $\gamma\text{C}$ ,  $\text{H}_4\text{NH}_a$   $\text{HO}(5\text{--C H}_4\text{NH}_2 \text{ C--CeHjNH}_a \text{ X}_6\text{H}_4\text{NH}_2 \text{ C}_6\text{H}_4\text{NHjCl}$  Para-rosaniline Para-rosaniline hydrochloride (red dye) The theory of the structure of the benzene molecule put forward by Kekul<sup>6</sup>, and the elucidation of the constitution of rosaniline and para-rosaniline which it rendered possible, not only enabled one to understand the exact relations between the different dyes, the Hofmann violets, aniline blue, etc., which had already been prepared, but new and better processes for the synthesis of these and other dyes could be introduced. Thus the old process for the manufacture of para-rosaniline and rosaniline (magenta) has given place to the New Fuchsine process in which para-rosaniline is prepared from formaldehyde and aniline, while rosaniline is prepared from formaldehyde, aniline, and orthotoluidine. The hydrogen atoms of the three  $\text{NH}_2$ -groups present in rosaniline and para-rosaniline can be replaced by various groups, such as methyl ( $\text{CH}_3$ ), ethyl ( $\text{C}_2\text{H}_6$ ), phenyl ( $\text{C}_6\text{H}_5$ ), benzyl ( $\text{C}_6\text{H}_5\text{--CH}_2$ ), etc., by acting on the compounds with methyl chloride, ethyl chloride, aniline, benzyl chloride, etc. In this way whole series of dyes can be obtained, like the Hofmann violets, which were prepared by replacing three hydrogen atoms in rosaniline by methyl or ethyl groups; and aniline blue, which is derived from magenta by the replacement of three hydrogen atoms by phenyl groups. Since, therefore, a varying number of hydrogen atoms can be replaced by different groups, it will readily be understood that from the parent dye, magenta, quite a considerable number...



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