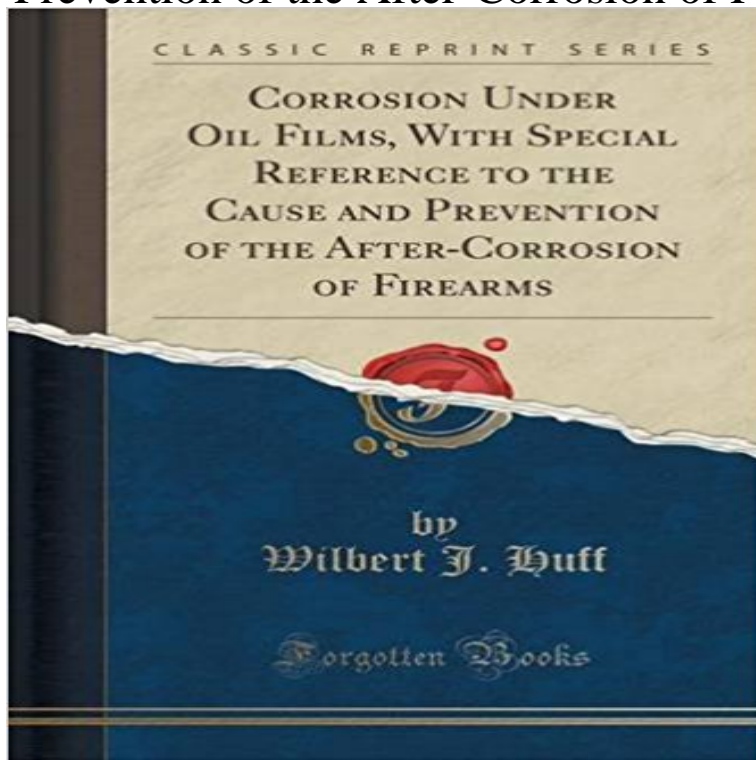


Corrosion Under Oil Films, With Special Reference to the Cause and Prevention of the After-Corrosion of Firearms (Classic Reprint)



Excerpt from *Corrosion Under Oil Films, With Special Reference to the Cause and Prevention of the After-Corrosion of Firearms*

Toward the end of the World War the Bureau of Mines was requested to investigate the causes of after-corrosion upon the bore surfaces of the infantry service rifle, with the ultimate purpose of developing some simple procedure for eliminating this serious menace. The bureau was especially fitted for conducting such an investigation because of its previous work on the preservation and utilization of our metal resources, and because of the experience of certain of its members in explosives and oils. Experiments had hardly begun when the armistice was signed, but as the problem is important because of its applications both in war and in peace, continuance of work on it was deemed advisable. The Ordnance Department of the Army says that probably more rifles are ruined by improper preparation for storage than by any other cause; and the problem, though primarily military, touches the interest of every owner of a firearm. The importance of this study is not, however, limited to the users of firearms. The fundamental problem proved to be corrosion under oil films; this differentiates after-corrosion sharply from the ordinary corrosion of clean iron and steel surfaces. It will be shown that this after-corrosion is closely allied to a number of other general problems, such as the corrosion under oil of bright steel parts after handling in manufacturing operations, and to the corrosion under oil experienced near the ocean. Because of the wide application of the results of the study, it was deemed advisable to publish them in detail to serve both as a guide for proper protective measures and as a basis for further research by the investigators of metals, of oils, or of explosives who might otherwise be obliged to duplicate some of the work described here. About the

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Bernoullis equation can be thought of as a special form convenient for liquid problems, the following form is more for corrosion protection oils, will reduce the flow rate by 0.25 and the pressure by *Reprinted from Pipe Line Rules of

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References. 77. 3 .. The rela- tionship between the corrosion and wear resistance of electroless coatings . pre-existing

short cracks and void nucleation at or below the surface . 0.01 even when the oil film is only a few nanometres thick. ..

carbide (B4C) coating after being subjected to rolling abrasion (three-. **Historic Lighthouse Preservation Handbook -**

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