
Tribocorrosion Of Passive Metals And Coatings

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2019-11-03

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Oct 12, 2011 · Tribocorrosion causes the degradation or alteration of materials through the combined action of corrosion and wear. It limits the performance and life-time of installations, machines and devices with moving parts, and controls certain manufacturing processes such as chemical-mechanical polishing. The

effects of tribocorrosion are most pronounced on passive metals which owe their corrosion resistance to a thin protecting oxide film. Most corrosion-resistant engineering alloys belong to this category. This book provides an introduction to the developing field of tribocorrosion and an overview of the latest research.

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Oct 12, 2011 · Comprehensively reviews

current research on the tribocorrosion of passive metals and coatings, with particular reference to the design of tribocorrosion test equipment, data evaluation and the

Sliding Tribo-Corrosion of Passive Metals: Mechanisms and

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May 1, 2013 · Sliding Tribo-Corrosion of Passive Metals: Mechanisms and Modeling Authors: Stefano Mischler École Polytechnique Fédérale de Lausanne Abstract Recently developed concepts in the mechanistic

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Aug 1, 2018 · In this study, models describing tribocorrosion of passive metals in sliding contacts were reviewed Different categories of models (two-body or three-body contact models, lubricated tribocorrosion model, empirical models, multi-degradation models) were found in the literature

passive metals and - Semantic Scholar

Tribocorrosion of passive metals and

coatings Edited by Dieter Landolt and Stefano Mischler WP WOODHEAD PUBLISHING J^M Oxford Cambridge Philadelphia New Delhi Woodhead Publishing Limited, 2011 Contents Contributor contact details Introduction xi 1 5 Special modes of corrosion of passive metals and alloys 21 *Tribocorrosion of Passive Metals and Coatings (Enhanced Edition)* May 5, 2022 · Therefore, the tribocorrosion behaviours of two typically passive metals (Ni and Nb), which have been widely used as anti-corrosion materials or as passive elements to produce anti-corrosion alloy, and, more importantly, have different passive film growth mechanisms, were investigated under potentiodynamic and potentiostatic conditions in

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Passive metals While tribocorrosion phenomena may affect many materials, they are most critical for metals, especially the normally corrosion resistant so-called passive metals The vast majority of corrosion resistant metals and alloys used in engineering (stainless steels, titanium, aluminium etc) fall into this

Tribocorrosion of Passive Metals and Coatings - 1st Edition

Authors: Anna Igual Munoz, Nuria Espallargas, Stefano Mischler Is a toolbox for identifying and addressing tribocorrosion situations Covers main concepts of tribology and corrosion Describes specific tribocorrosion concepts, models, and experimental

techniques

Modeling tribocorrosion of passive metals - A review

Jun 17, 2020 · The most common materials used in tribocorrosion systems are passive metals that are mechanically activated by the removal of the passive film The depassivated area (III in Fig 4 1) exposed to the electrolyte solution corrodes at a much higher corrosion rate (wear accelerated corrosion, V chem) until the passive film forms

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In this approach, the metal volume loss due to tribocorrosion is the sum of three contributions, namely, the mechanically detached material (abrasion, adhesion, or delamination), the chemically removed material (metal ions dissolved in the electrolyte), and the metal

oxidized to form the passive film
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The effects of tribocorrosion are most pronounced on passive metals which owe their corrosion resistance to a thin

protecting oxide film Most corrosion-resistant engineering alloys belong to this category This book provides an introduction to the developing field of tribocorrosion and an overview of the latest research