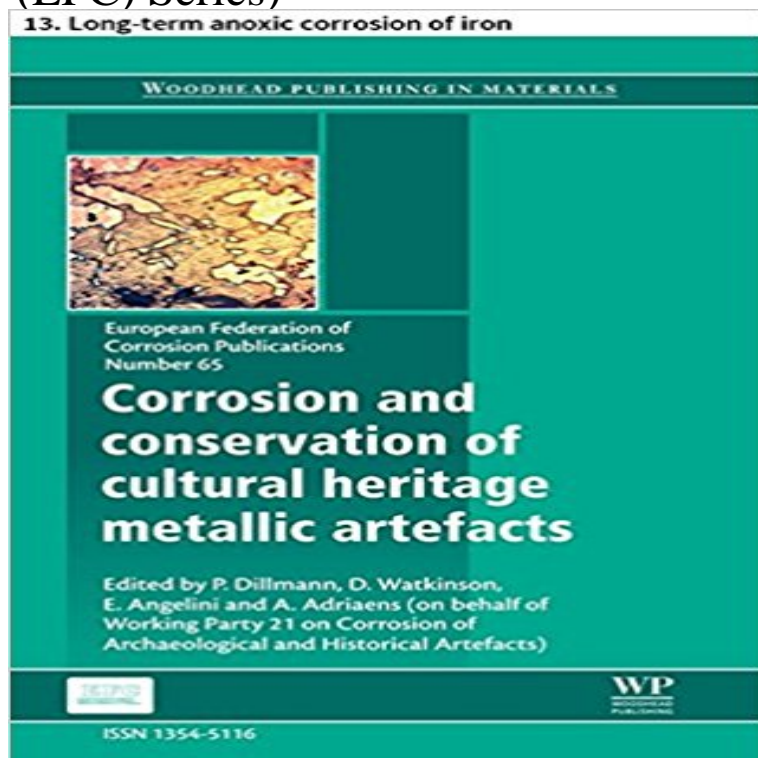


Corrosion and conservation of cultural heritage metallic artefacts: 13. Long-term anoxic corrosion of iron (European Federation of Corrosion (EFC) Series)



Understanding the long-term corrosion mechanisms of iron in an anoxic environment is essential in the field of the preservation of archaeological heritage artefacts and nuclear waste management. Corrosion mechanisms have been assessed by examining nails 400 years old from the archaeological site of Glinet. This chapter provides an overview of the characterisation of the entire corrosion system environment/samples through coupled multiscale analytical tools. The environment is anoxic, calco-carbonated and water-saturated. Three corrosion patterns composed of ferrous carbonates (siderite and chukanovite) and magnetite have been identified. Depending on the connection between the phases and their location, the electronic properties of the corrosion layers have been established. The electrochemical behaviour of the corrosion system shows that water reduction at the metallic interface is negligible. Furthermore, the electron consumption sites are mainly localised on the external part and the precipitation sites on the internal part of the corrosion layer. The corrosion rate is estimated to be less than 2µm/year and a corrosion mechanism is proposed based on a decoupling of the anodic and cathodic sites and on the existence of a nanometric corrosion layer at the metallic interface.

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SOCIAL SERVICES AND PATHWAY PLAN

While you have been looked after you will have known some people whose job it is to help and support you. All young people in care have a social worker. It is a good idea to keep their details readily available just in case you need to contact them. You may also want to note the [...]

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