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4.3 Sulphate-reducing bacteria (SRB): bringing together hydrogen, sulphur and nitrogen biocycles4.4 Electron transfer (ET) processes relevant for SRB; 4.5 Bacteria and metal surfaces: influence of extracellular polymeric substances (EPSs); 4.6 Useful methods and tools for MIC assessment; 4.7 Conclusions; Acknowledgements; References; 5 Electroactive biofilms; 5.1 Introduction; 5.2 Different types of electron transfer mechanisms; 5.3 Examples of electroactive biofilms (EABs) from the lab; 5.4 EABs and technological applications; 5.5 EABs and biocorrosion; 5.6 Conclusions; References
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9.7 Effects of nutrient pollution

Sommario/riassunto

Provides a detailed overview of biocorrosion and the different scientific and/or industrial problems related to microbially induced corrosion
Introduces a variety of investigative techniques and methodologies that are employed in diagnosing and evaluating microbially induced corrosion
Includes case studies on: biodeterioration of building materials; biocorrosion issues associated with diesel and biofuels; marine biocorrosion; corrosion of open recirculating cooling water systems and cooling system components; the effect of H₂S on steel corrosion