

Metals Handbook Metallography And Microstructures

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this practical reference provides thorough and systematic coverage on both basic metallurgy and the practical engineering aspects of metallic material selection and application

the first of many important works featured in crc press metals and alloys encyclopedia collection the encyclopedia of iron steel and their alloys covers all the fundamental theoretical and application related aspects of the metallurgical science engineering and technology of iron steel and their alloys this five volume set addresses topics such as extractive metallurgy powder metallurgy and processing physical metallurgy production engineering corrosion engineering thermal processing metalworking welding iron and steelmaking heat treating rolling casting hot and cold forming surface finishing and coating crystallography metallography computational metallurgy metal matrix composites intermetallics nano and micro structured metals and alloys nano and micro alloying effects special steels and mining a valuable reference for materials scientists and engineers chemists manufacturers miners researchers and students this must have encyclopedia provides extensive coverage of properties and recommended practices includes a wealth of helpful charts nomograms and figures contains cross referencing for quick and easy search each entry is written by a subject matter expert and reviewed by an international panel of renowned researchers from academia government and industry also available online this taylor francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options contact taylor and francis for more information or to inquire about subscription options and print online combination packages us tel 1 888 318 2367 e mail e reference taylorandfrancis com international tel 44 0 20 7017 6062 e mail online sales tandf co uk

these volumes cover the properties processing and applications of metals and nonmetallic engineering materials

they are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria

the effect of corrosion in the oil industry leads to the failure of parts this failure results in shutting down the plant to clean the facility the annual cost of corrosion to the oil and gas industry in the united states alone is estimated at 27 billion according to nace international leading some to estimate the global annual cost to the oil and gas industry as exceeding 60 billion in addition corrosion commonly causes serious environmental problems such as spills and releases an essential resource for all those who are involved in the corrosion management of oil and gas infrastructure corrosion control in the oil and gas industry provides engineers and designers with the tools and methods to design and implement comprehensive corrosion management programs for oil and gas infrastructures the book addresses all segments of the industry including production transmission storage refining and distribution selects cost effective methods to control corrosion quantitatively measures and estimates corrosion rates treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others provides a gateway to more than 1 000 industry best practices and international standards

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