

1. Record Nr.	UNINA9910731473803321
Autore	Saha Atanu
Titolo	Boiler Tube Failure Mechanisms : Case Studies // by Atanu Saha
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-9931-30-4
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (136 pages)
Collana	Springer Tracts in Mechanical Engineering, , 2195-9870
Disciplina	621.183
Soggetti	Thermodynamics Heat engineering Heat - Transmission Mass transfer Electric power production Corrosion and anti-corrosives Thermoelectric materials Chemistry, Technical Engineering Thermodynamics, Heat and Mass Transfer Mechanical Power Engineering Corrosion Thermoelectrics Industrial Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1.0 Introduction -- 2.0 Material for steam boilers -- 3.0 Design Life of Components -- 4.0 Failure/ damage mechanism of boiler tube -- 5.0 Case Studies -- 6.0 Overall conclusion.
Sommario/riassunto	This book presents failure mechanisms of different boiler components and preventive measures. It illustrates the basic steam flow and circuit design of steam boiler, boiler design parameters, boiler components materials and their behavior at different temperatures. The book aims to identify the cause(s) of in-service failure of secondary superheater tube, platen superheater tube and furnace water wall tube and also presents the solutions to avoid the future failures. This volume will be of interest to researchers and professionals working in the areas of

energy, power generation, electric power plants, thermodynamics,
industrial chemistry, etc.
