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applications. Opening chapters address operational challenges and structural alloy requirements in different types of power plants. The following sections review power plant structural alloys and

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Due to their continuing role in electricity generation, it is important that coal power plants operate as

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issues involved in meeting variable energy demands.

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materials, their behavior under operational loads, and approaches to life assessment and defect

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much of the scholarly knowledge of nuclear materials pursuant to appropriate, impactful, and safe usage is at risk. Led by the multi-award winning editorial team of G. Robert Odette (UCSB) and Steven J.

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Supporting the development of advanced computational models.

A program on fireside corrosion is being conducted at Argonne National Laboratory to evaluate the



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performance of several structural alloys in the presence of mixtures of synthetic coal ash, alkali sulfates, and alkali chlorides. Candidate alloys are also exposed in a small-scale coal-fired combustor

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at the National Energy  
Technology Laboratory in  
Pittsburgh. Experiments in  
the present program, which  
addresses the effects of  
deposit chemistry,  
temperature, and alloy  
chemistry on the corrosion

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response of alloys, were conducted at temperatures in the range of 575–800 C for time periods up to (almost equal to) 1850 h. Alloys selected for the study included HR3C, 310TaN, HR120, SAVE 25, NF709,

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modified 800, 347HFG, and HCM12A. In addition, 800H clad with Alloy 671 was included in several of the exposures. Data were obtained on weight change, scale thickness, internal penetration, microstructural

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(almost equal to) 725 C, but the rate itself was dependent on the alloy chemistry. Several alloys showed acceptable rates in the sulfate-containing coal-ash environment; but NaCl in the deposit led to

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catastrophic corrosion at 650 and 800 C.

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simulation of stress  
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corrosion of copper alloys,  
zirconium corrosion,  
optimization of water  
chemistry at operating  
nuclear power plants,  
coolant tendency to deposit



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hardness salts on heat-transfer surfaces, and inspection of metallic components. In addition, there are two appendixes, the first showing the chemical composition of steels, the second

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discussing solubility of iron, cobalt, zinc and copper corrosion products under conditions simulating power unit water chemistry.

A program on coal-ash corrosion is being conducted

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at Argonne National Laboratory to evaluate the performance of several structural alloys in the presence of mixtures of synthetic coal ash, alkali sulfates, and alkali chlorides. Candidate alloys

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are also exposed in a small-scale coal-fired combustor at the National Energy Technology Laboratory in Pittsburgh. Experiments in the present program, which addresses the effects of deposit chemistry,

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temperature, and alloy chemistry on the corrosion response of alloys, were conducted at temperatures in the range of 575–800 C for time periods up to {approx}1850 h. Fe-base alloys selected for the

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study included HR3C, 310TaN, HR120, SAVE 25, NF709, modified 800, 347HFG, and HCM12A. In addition, 800H clad with Alloy 671 was included in several of the exposures. Ni-base alloys selected for the study

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included 600, 601, 617, 690,  
625, 602CA, 214, 230, 45TM,  
HR 160, and 693. Data were  
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scale thickness, internal  
penetration, microstructural  
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integrity of the scales, and cracking of scales. Results showed that the relationship of corrosion rates to

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itself was dependent on the alloy chemistry. Several Fe-base alloys showed acceptable rates in the sulfate-containing coal-ash environment; but NaCl in the deposit led to catastrophic corrosion at 650 and 800 C.

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Ni-base alloys generally exhibited less corrosion than the Fe-base alloys under similar exposure conditions; however, they were susceptible to localized corrosion in the form of pits.

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due to boilers, and  
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has been devoted to the  
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metallurgy of steels, heat  
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of different grades of steels and high temperature alloys currently in use as boiler tubes and future materials to be used in supercritical, ultra-supercritical and advanced ultra-supercritical thermal

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power plants. A comprehensive discussion on different mechanisms of boiler tube failure is the heart of the book. Additional chapters detailing the role of advanced material

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Characterization techniques in failure investigation and the role of water chemistry in tube failures are key contributions to the book. The authors have long-standing experience in the field of metallurgy and

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materials technology,  
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remaining life assessment  
(RLA) and fitness for  
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plant and equipment,  
including power plants. They  
have conducted a large

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tubes and have recommended  
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effective remedial measures  
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in problem solving for power  
and utility boilers.

Calcium and Chemical Looping

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these systems

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