

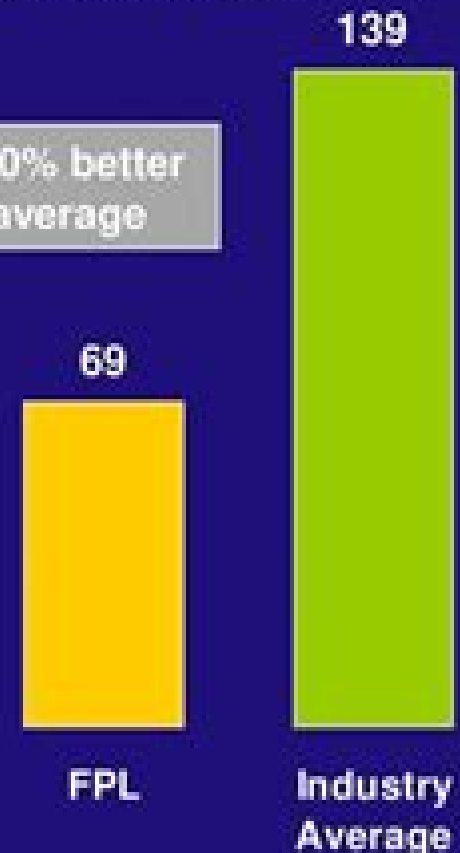
Operational Excellence at FPL

Plant Availability



Service Reliability *Outage Time Per Customer (Min.)*

FPL = 50% better than average



FPL information as of 2002; industry information as of 2001.

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Committee on Interstate and Foreign
Commerce. Subcommittee on Energy
and Power**

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Service Experience in Fossil and Nuclear Power Plants, 1999 Contains papers from an August 1999 conference arranged in sections on service experience in fossil fuel plants and in operating nuclear plants development and user experience of new methodologies of structural integrity assessment and equipment assessments Specific areas covered include failure

Applied Fracture Mechanics Alexander Belov, 2012-12-12 The book *Applied Fracture Mechanics* presents a collection of articles on application of fracture mechanics methods to materials science medicine and engineering In thirteen chapters a wide range of topics is discussed including strength of biological tissues safety of nuclear reactor components fatigue effects in pipelines environmental effects on fracture among others In addition the book presents mathematical and computational methods underlying the fracture mechanics applications and also developments in statistical modeling of fatigue The work presented in this book will be useful effective and beneficial to mechanical engineers civil engineers and material scientists from industry research and education

Case Studies in Reliability and Maintenance Wallace R. Blischke, D. N. Prabhakar Murthy, 2003-03-13 Introducing a groundbreaking companion book to a bestselling reliability text *Reliability* is one of the most important characteristics defining the quality of a product or system both for the manufacturer and the purchaser One achieves high reliability through careful monitoring of design materials and other input production quality assurance efforts ongoing maintenance and a variety of related decisions and activities All of these factors must be considered in determining the costs of production purchase and ownership of a product *Case Studies in Reliability and Maintenance* serves as a valuable addition to the current literature on the subject of reliability by bridging the gap between theory and application Conceived during the preparation of the editors earlier work *Reliability Modeling Prediction and Optimization* Wiley 2000 this new volume features twenty six actual case studies written by top experts in their fields each illustrating exactly how reliability models are applied A valuable companion book to *Reliability Modeling Prediction and Optimization* or any other textbook on the subject the book features Case studies from fields such as aerospace automotive mining electronics power plants dikes computer software weapons photocopiers industrial furnaces granite building cladding chemistry and aircraft engines A logical organization according to the life cycle of a product or system A unified format of discussion enhanced by tools techniques and models for drawing one's own conclusions Pertinent exercises for reinforcement of ideas Of equal value to both students of reliability theory as well as professionals in industry *Case Studies in Reliability and Maintenance* should be required reading for anyone seeking to understand how reliability and maintenance issues can be addressed and resolved in the real world

ANCILLARY EQUIPMENT AND ELECTRICAL EQUIPMENT - Volume I, 2010-12-03 *Ancillary Equipment and Electrical Equipment* is a component of *Encyclopedia of Water Sciences Engineering and Technology Resources* in the global *Encyclopedia of Life Support Systems EOLSS* which is an integrated compendium of twenty one Encyclopedias The volume presents state of the art subject matter of various aspects of Ancillary Equipment And

Electrical Equipment such as Seawater Supply Pump Cooling Water Recirculation Pump Brine Recirculation Pump Brine Blowdown Pump Brine Heater Condensate Pump Minor Pumps For Desalination Plants The Installation Criteria And The Layout Hydraulic Aspects In Design And Operation Of Axial Flow Pumps Description Of Surface Vortices With Regard To Common Design Criteria Of Intake Chambers Vacuum Creating Equipment Filtering Equipment Chemical Dosing Stations On Load Sponge Ball Cleaning System Power Supply Systems And Electrical Equipment For Desalination Plants Composite Materials For Pressure Vessels And Pipes Thermal Stresses In Vessels Piping And Components Pressure Vessels And Piping Systems Reliability Risk And Safety Assessment Pressure Vessels And Shell Structures Pipeline Operations Steel And Pipe Mill Technology Pipeline Structural Integrity Pipeline System Automation And Control Pump And Compressor Operation Environmental Conservation Practices For Pipelines This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers

Comprehensive Nuclear Materials, 2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation temperature and or corrosion and in many cases the combination of these makes the material behavior very different from conventional materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand the underlying processes affecting changes in their behavior in order to assess their performance and to determine the limits of operation *Comprehensive Nuclear Materials* Second Edition Seven Volume Set provides broad ranging validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion reactor systems Attention is given to the fundamental scientific aspects of nuclear materials fuel and structural materials for fission reactors waste materials and materials for fusion reactors The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource of information Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material During the ten years between the two editions the challenge for applications of nuclear materials has been significantly impacted by world events public awareness and technological innovation Materials play a key role as enablers of new technologies and we trust that this new edition of *Comprehensive Nuclear Materials* has captured the key recent developments Critically reviews the major classes and functions of materials supporting the selection assessment validation and engineering of materials in extreme nuclear environments Comprehensive resource for up to date and authoritative information which is not always available elsewhere even in journals Provides an in depth treatment of materials modeling and simulation with a specific focus on nuclear issues

Serves as an excellent entry point for students and researchers new to the field

Damage and Fracture Mechanics
Taoufik Boukharouba, Mimoun Elboujdaini, Guy Pluvineau, 2009-08-09 The First African InterQuadrennial ICF Conference AIQ ICF2008 on Damage and Fracture Mechanics Failure Analysis of Engineering Materials and Structures Algiers Algeria June 15 2008 is the first in the series of InterQuadrennial Conferences on Fracture to be held in the continent of Africa During the conference African researchers have shown that they merit a strong reputation in international circles and continue to make substantial contributions to the field of fracture mechanics As in most countries the research effort in Africa is undertaken at the industrial academic private sector and governmental levels and covers the whole spectrum of fracture and fatigue The AIQ ICF2008 has brought together researchers and engineers to review and discuss advances in the development of methods and approaches on Damage and Fracture Mechanics By bringing together the leading international experts in the field AIQ ICF promotes technology transfer and provides a forum for industry and researchers of the host nation to present their accomplishments and to develop new ideas at the highest level International Conferences have an important role to play in the technology transfer process especially in terms of the relationships to be established between the participants and the informal exchange of ideas that this ICF offers

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Materials for Ultra-Supercritical and Advanced Ultra-Supercritical Power Plants Augusto Di Gianfrancesco, 2016-09-01 Materials for Ultra Supercritical and Advanced Ultra Supercritical Power Plants provides researchers in academia and industry with an essential overview of the stronger high temperature materials required for key process components such as membrane wall tubes high pressure steam piping and headers superheater tubes forged rotors cast components and bolting and blading for steam turbines in USC power plants Advanced materials for future advanced ultra supercritical power plants such as superalloys new martensitic and austenitic steels are also addressed Chapters on international research directions complete the volume The transition from conventional subcritical to supercritical thermal power plants greatly increased power generation efficiency Now the introductions of the ultra supercritical USC and in the near future advanced ultra supercritical A USC designs are further efforts to reduce fossil fuel consumption in power plants and the associated carbon dioxide emissions The higher operating temperatures and pressures found in these new plant types however necessitate the use of advanced materials Provides researchers in academia and industry with an authoritative and systematic overview of the stronger high temperature materials required for both ultra supercritical and advanced ultra supercritical power plants Covers materials for critical components in ultra supercritical power plants such as boilers rotors and turbine blades Addresses advanced materials for future advanced ultra supercritical power plants such as superalloys new martensitic and austenitic steels Includes chapters on technologies for welding technologies

Creep and Fracture of Engineering Materials and Structures: Proceedings of the 9th International Conference: Proceedings of the 9th International Conference J.D.

Parker,2024-11-01 This volume contains the 75 papers from the Proceedings of the 9th International Conference on Creep and Fracture of Engineering Materials and Structures held at University of Wales Swansea 1st April 4th April 2001

Electric Utility Rate Reform and Regulatory Improvement: Serial No. 94-128 United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Energy and Power,1976 Risk-based Inspection: pt. 2. Light water reactor (LWR) nuclear power plant components ,1991 Pressure Vessel and Piping Codes and Standards, 2001 Mahendra D. Rana,2001 **Probabilistic and Environmental Aspects of Fracture and Fatigue** Sharif Rahman,1999 Contains 24

papers from an August 1999 conference organized in two sections on probabilistic fatigue fracture and reliability and environmental fractures and fatigue life Papers present novel analytical and experimental methods related to fatigue fracture mechanics and environmental factors f Fitness-for-service Evaluations in Petroleum and Fossil Power Plants Masaru

Zako,Martin Prager,1998 Forty papers from the July 1998 Conference balance the four legs of the assessment chair analysis ductile and brittle fracture including creep crack growth and LTA behavior NDE and monitoring ultrasonics acoustic emission eddy current technology transfer among others materials behavior weldment failure modes hydrogen attack and cracking toughness estimation reheat cracking advanced alloys and creep modeling and codes and standards insights into API ASME and many European organizations Contains an author index but no subject index Annotation copyrighted by Book News Inc Portland OR **Pressure Vessels and Piping Codes and Standards** ,2001 Fitness-for-service and Decisions

for Petroleum and Chemical Equipment Martin Prager,1995 *Fatigue and Fracture, 1997* ,1997 **Pressure Vessel and Piping Codes and Standards, 1999** Barry T. Lubin,1999 Contains six panel session summaries and 27 technical papers presented at the August 1999 conference The paper topics include parametric studies on the pressure temperature curve for the RSE M code fracture toughness requirements for ASME section VIII vessels for temperatures colder than 77K unc

ASM Handbook ASM International. Handbook Committee,1990 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

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