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| 1. Record Nr.           | UNINA9910134129703321                                                                                                                                                                                                             |
| Titolo                  | Journal of conflict studies                                                                                                                                                                                                       |
| Pubbl/distr/stampa      | Fredericton, N.B. : , : Centre for Conflict Studies, University of New Brunswick<br>Fredericton, N.B. : , : Gregg Centre for the Study of War and Society<br>©1995-                                                               |
| ISSN                    | 1715-5673                                                                                                                                                                                                                         |
| Disciplina              | 327.1/6                                                                                                                                                                                                                           |
| Soggetti                | World politics - 1989-<br>International relations<br>World politics<br>Internationale Politik<br>Konfliktforschung<br>Zeitschrift<br>LOW-INTENSITY CONFLICTS<br>WORLD POLITICS<br>TERRORISM<br>POLITICAL VIOLENCE<br>Periodicals. |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                           |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                |
| Livello bibliografico   | Periodico                                                                                                                                                                                                                         |
| Note generali           | Title from cover.<br>Refereed/Peer-reviewed                                                                                                                                                                                       |

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| 2. Record Nr.           | UNINA9910132203203321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Titolo                  | Lactic acid bacteria : biodiversity and taxonomy / / edited by Wilhelm Holzapfel, Brian J. B. Wood ; contributors Hikmate Abriouel [and forty four others]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Pubbl/distr/stampa      | Chichester, England : , : Wiley Blackwell, , 2014<br>©2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISBN                    | 1-118-65527-3<br>1-118-65525-7<br>1-118-65528-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Descrizione fisica      | 1 online resource (632 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Classificazione         | TEC012000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disciplina              | 579.3/5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Soggetti                | Lactic acid bacteria<br>Microbial diversity<br>Biodiversity<br>Lactic acid bacteria - Physiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Note generali           | Includes index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Nota di contenuto       | Section I. Introduction: The Lactic Acid Bacteria in present day context -- Introduction to the LAB -- Physiology of the LAB -- Phylogenetics and Systematics -- Overview on the ecology and biodiversity of the lactic acid bacteria -- Comparative genomics of Lactobacillus and other lactic acid bacteria -- Section II. Family Aerococcaceae -- The genus Abiotrophia -- Aerococcus -- The genus Facklamia -- Minor genera of the Aerococcaceae (Dolosicoccus, Eremococcus, Globicatella, Ignavigranum) -- Section III. Family Carnobacteriaceae -- The genus Carnobacterium -- The Genus Marinilactibacillus -- The genus Trichococcus -- The genus Alkalibacterium -- Minor Genera of Carnobacteriaceae : Allofustis, Alloiococcus, Atopobacter, Atopococcus, Atopostipes, Bavariicoccus, Desemzia, Dolosigranulum, Granulicatella, Isobaculum and Lacticigenium -- Section IV: The family Enterococcaceae -- Genus Enterococcus -- Genus Tetragenococcus -- Genus Vagococcus -- Minor genera in Enterococcaceae : Catellicoccus, Melissococcus and Pilibacter -- Section V. Family Lactobacillaceae -- |

The genus *Lactobacillus* -- The genus *Paralactobacillus* -- The genus *Pediococcus* -- The genus *Fructobacillus* -- Section V. Family *Leuconostocaceae* -- The genus *Leuconostoc* -- The genus *Oenococcus* -- The genus *Weissella* -- Section VII. The family *Streptococcaceae* -- Genus *Lactococcus* -- Genus *Lactovum* -- The genus *Streptococcus* -- Section VIII. Physiologically "related" Genera -- Genus *Bifidobacterium* with notes on the genera *Scardovia* and *Parascardovia* -- Genus *Sporolactobacillus* -- Genera *Bacillus*, *Geobacillus*, and *Halobacillus* -- The Genera *Halolactibacillus* and *Paraliobacillus*.

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#### Sommario/riassunto

"This book provides a much-needed and comprehensive account of the current knowledge of the lactic acid bacteria, covering the taxonomy, biochemistry, physiology and molecular biology of these scientifically and commercially important micro-organisms"--

"The lactic acid bacteria (LAB) are a group of related micro-organisms that are enormously important in the food and beverage industries, preventing food spoilage and extending shelf life. This is the first reference that provides a much-needed and comprehensive account of the current knowledge of LAB, detailing the taxonomy, biochemistry, physiology, and molecular biology of these scientifically and commercially important micro-organisms. With chapter coverage of every recognized genus and species, this book will enable researchers to fully exploit the industrial, nutritional, and medical applications of these organisms"--

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| 3. Record Nr.           | UNINA9910797788403321                                                       |
| Autore                  | Couplan Francois                                                            |
| Titolo                  | Aimez vos plantes invasives : mangez-les ! / / Francois Couplan             |
| Pubbl/distr/stampa      | Versailles Cedex, France : , : Editions Quae, , 2015<br>©2015               |
| ISBN                    | 2-7592-2313-2<br>2-7592-2312-4                                              |
| Descrizione fisica      | 1 online resource (292 p.)                                                  |
| Disciplina              | 581.62                                                                      |
| Soggetti                | Invasive plants - Europe, Western<br>Cooking (Wild foods) - Europe, Western |
| Lingua di pubblicazione | Francese                                                                    |
| Formato                 | Materiale a stampa                                                          |
| Livello bibliografico   | Monografia                                                                  |
| Note generali           | Description based upon print version of record.                             |
| Nota di bibliografia    | Includes bibliographical references and indexes.                            |

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| 4. Record Nr.           | UNISA996308807603316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Autore                  | Jacke Christoph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Titolo                  | Kulturschutt : Uber das Recycling von Theorien und Kulturen / Christoph Jacke, Eva Kimminich, Siegfried J. Schmidt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pubbl/distr/stampa      | Bielefeld, : transcript Verlag, 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ISBN                    | 3-8394-0394-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Edizione                | [1st ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Descrizione fisica      | 1 online resource (364)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Collana                 | Cultural Studies ; 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Classificazione         | MR 7100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Disciplina              | 306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soggetti                | Medienkulturwissenschaft; Kulturtheorie; Popkultur; Jugendkultur; Globalisierung; Cultural Studies; Werbung; Sampling; Mode; Gedachtnis; Kultur; Medienasthetik; Kulturwissenschaft; Cultural Theory; Popular Culture; Globalization; Fashion Studies; Culture; Media Aesthetics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Lingua di pubblicazione | Tedesco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nota di contenuto       | Frontmatter 1 INHALT 5 VORWORT: KULTURSCHUTT. UBER DAS RECYCLING VON THEORIEN UND KULTUREN 9 SIEGFRIED J. SCHMIDT 21 KULTUR(SCHUTT)RECYCLING: VON KIDS UND BARBAREN, JESUSLATSCHEN UND DREADLOCKS. JUGEND IM SPANNUNGSFELD VON KONZEPTEN UND KULTURPROGRAMMEN 34 UNTERHALTUNG: EINE FRAGE FUR DIE ASTHETIK 70 KULTURTHEORIE UND MULLMETAPHER. ESSAY ZUR KRITIK DER SIMULATION 97 POPMUSIK ALS SEISMOGRAPH. UBER DEN NUTZEN WISSENSCHAFTLICHER BEOBACHTUNG VON POP 114 DETERRITORIALE VERGEMEINSCHAFTUNGSNETZWERKE: JUGENDKULTURFORSCHUNG UND GLOBALISIERUNG DER MEDIENKOMMUNIKATION 124 DISTANZIERTE FORSCHER UND SELBSTREFLEXIVE GEGENSTANDE. ZUR KRITIK DER CULTURAL STUDIES IN DEUTSCHLAND 148 GLOBALE MEDIENEREIGNISSE IN DER WAHRNEHMUNG JUGENDLICHER HEUTE 165 ICH-FINDUNG, SELBSTERPROBUNG UND JUGENDKULTURELLE PRAKTIKEN IN EINER VIRTUELLEN GEMEINSCHAFT 188 VIRTUALITAT UND VIVA-VIDEO WORLD 207 SCHONER SCHROTT: WERBE-RAUSCHEN IM KULTUR-PROGRAMM. WERBUNG UND/ALS POPKULTUR 223 SCHWARZES GLUCK UND DUNKLE WELLE. GOTISCHE KULTURSEDIMENTE IM JUGENDKULTURELLEN STIL UND MAGISCHES SYMBOLRECYCLING IM |

NETZ 235 WENN DIE LAUTEN SIGNALE UNHORBAR WERDEN, IST ES  
ZEIT FÜR EIN FEINES, LEISES LIED: MODE ALS KOMMUNIKATIONSMITTEL  
IN DER ÄRA DER GLEICHZEITIGKEIT 257 INSTABIL. MUSIK UND  
DIGITALITÄT ALS MOMENTE DER VERSCHIEBUNG 271  
THEATERDEPONIEREN. EINE POLEMIK! 282 DAS GEDACHTNIS AUF DEM  
MULL - ODER: WAS MUSS HIER EIGENTLICH ENTSORGT WERDEN? 307  
WIEDERVERWERTUNGEN. RETRO UND DIE REFLEXIVITÄT DES RELOADS  
320 SAMPLING: EINE POSTMODERNE KULTURTECHNIK 333  
AUTORINNEN 354 Backmatter 362

## Sommario/riassunto

Popkultur und Wissenschaft haben eines gemeinsam: Sie sind auf Dauer gestellte Zitationsmaschinen, die durch ständiges Referieren und Recyclen funktionieren. Dabei dient die Wiederverwertung und Entwicklung oftmals verschütteter Ideen anderer im Eigenen den Aktanten der Popkultur, um Aufmerksamkeit zu erregen; in der Wissenschaft hingegen wählt man sich als Aktant in die Netzwerke bisheriger Ansätze ein, um Erkenntnisse zu gewinnen. Der Band beschäftigt sich in einem ersten Teil mit grundlegenden transdisziplinären Überlegungen zu den reflexiven Zusammenhängen von Kultur(en) und Theorie(n). Die Fallstudien des zweiten Teils gehen auf konkrete Phänomene von Kulturbeobachtung wie Medienereignisse, Werbung, Mode, Musik und Theater ein. Mit Beiträgen von Jochen Bonz, Mercedes Bunz, Andreas Hepp, Silke Hohmann, Theo Hug, Christoph Jacke, Sebastian Junger, Katrin Keller, Eva Kimminich, Joachim Knape, Birgit Richard, Siegfried J. Schmidt, Richard Shusterman, Mark Terkessidis, Angela Tillmann, Jorg van der Horst, Ralf Vollbrecht, Martin Zierold und Guido Zurstiege.

»In der Struktur und Methodik von ›Kulturschutt‹ spiegeln sich neuere diskursive Formationen zur Luhmann'schen Systemtheorie [...], so dass es sich um einen spezifisch deutschen Beitrag für eine Rekonzeptualisierung von Cultural Studies handelt.« Peter Stear, MEDIENwissenschaft, 3 (2007)

»Das Buch sammelt Momente einer lebendigen und lebhaften Debatte, die in Zu- und Umgang mit dem Phänomen sehr unterschiedlich agieren. Die grundsätzliche Wichtigkeit der thematischen Weitung vieler Blickwinkel, um nicht länger zwischen Unterhaltung und ernsthafter Information, zwischen Hoch- und Subkultur derart sortenrein zu unterscheiden, als ob diese (fiktionalen) Gegensatzpaare in reiner Konkurrenz stünden und sich nicht auch ergänzen würden, wird aber durchweg deutlich gemacht.« Christian Schwarzenegger, m&z, 3 (2007)

»Der [...] Band demonstriert durch die Beteiligung von Vertretern einer Vielzahl wissenschaftlicher Disziplinen sowie von Kunst- und Kulturschaffenden die Perspektivenvielfalt der gegenwertigen Beschäftigung mit Pop- und Jugendkultur.« Matthias Euteneuer, Ivonne Kusters, Soziologische Revue, 4 (2008)

Besprochen in: Kodikas/Code, 31/1-2 (2009), Ernest W. B. Hess-Lüttich

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| 5. Record Nr.           | UNINA9910337929403321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Titolo                  | Proceedings of the 18th International Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors / / edited by John H. Jackson, Denise Paraventi, Michael Wright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ISBN                    | 9783030046392<br>3030046397                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Edizione                | [1st ed. 2019.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Descrizione fisica      | 1 online resource (2,532 pages)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Collana                 | The Minerals, Metals & Materials Series, , 2367-1696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Disciplina              | 621.4833                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Soggetti                | Materials - Analysis<br>Nuclear engineering<br>Characterization and Analytical Technique<br>Nuclear Energy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Nota di contenuto       | Part 1. PWR Nickel SCC – SCC -- Scoring Process for Evaluating Laboratory PWSCC Crack Growth Rate Data of Thick-wall Alloy 690 Wrought Material and Alloy 52, 152, and Variant Weld Material -- Applicability of Alloy 690/52/152 Crack Growth Testing Conditions to Plant Components -- SCC of Alloy 152/52 Welds Defects, Repairs and Dilution Zones in PWR Water -- NRC Perspectives on Primary Water Stress Corrosion Cracking of High-chromium, Nickel-based Alloys -- Stress Corrosion Cracking of 52/152 Weldments near Dissimilar Metal Weld Interfaces -- Composite Material Stress Corrosion Crack Arrest Testing in Hydrogen Deaerated Water -- Investigation of Hydrogen Behavior in Relation to the PWSCC Mechanism in Alloy TT690 -- Part 2. PWR Nickel SCC – Initiation -- Crack Initiation of Alloy 600 in PWR Water -- SCC Initiation Behavior of Alloy 182 in PWR Primary Water -- Multiple Cracks Interactions in Stress Corrosion Cracking: In-situ Observation by Digital Image Correlation and Phase Field Modelling -- Stress Corrosion Cracking Initiation of Alloy 82 in Hydrogenated Steam -- Application of Ultra-high Pressure Cavitation Peening on Reactor Vessel Head Penetration, BMN and Primary Nozzles -- The Effect of |

Surface Condition on Primary Water Stress Corrosion Cracking Initiation of Alloy 600 -- Microstructural Effects on SCC Initiation in Simulated PWR Primary Water for Cold-worked Alloy 600 -- Part 3. PWR Nickel SCC - Aging Effects -- A Kinetic Study of Order-disorder Transition in Ni-Cr Based Alloys -- The Role of Stoichiometry on Ordering Phase Transformations in Ni-Cr Alloys for Nuclear Applications -- The Effect of Hardening via Long Range Order on the SCC and LTCP Susceptibility of a Nickel-30Chromium Binary Alloy -- PWSCC Initiation of Alloy 600: Effect of Long-term Thermal Aging and Triaxial Stress -- Stress Corrosion Cracking Behavior of Alloy 718 Subjected to Various Thermal Mechanical Treatments in Primary Water -- Time- and Fluence-to-fracture Studies of Alloy 718 in Reactor -- Development of Short-range Order and Intergranular Carbide Precipitation in Alloy 690 TT upon Thermal Ageing -- Part. 4. PWR Nickel SCC - Alloy 600 Mechanistic -- Diffusion Processes as a Possible Mechanism for Cr Depletion at SCC Crack Tip -- Role of Grain Boundary Cr<sub>5</sub>B<sub>3</sub> Precipitates on Intergranular Attack in Alloy 600 -- Advanced Characterization of Oxidation Processes and Grain Boundary Migration in Ni Alloys Exposed to 480 °C Hydrogenated Steam -- Exploring Nanoscale Precursor Reactions in Alloy 600 in H<sub>2</sub>/N<sub>2</sub>-H<sub>2</sub>O Vapor Using In Situ Analytical Transmission Electron Microscopy -- Electrochemical and Microstructural Characterization of Alloy 600 in Low Pressure H<sub>2</sub> origin: initial; background-clip: initial;">-Steam -- Effect of Dissolved Hydrogen on the Crack Growth Rate and Oxide Film Formation at the Crack Tip of Alloy 600 Exposed to Simulated PWR Primary Water -- A Mechanistic Study of the Effect of Temperature on Crack Propagation in Alloy 600 under PWR Primary Water Conditions -- Part 5. PWR Nickel SCC - Alloy 690 Mechanistic -- Grain Boundary Damage Evolution and SCC Initiation of Cold-worked Alloy 690 in Simulated PWR Primary Water -- Effect of Cold Work and Grain Boundary Carbides on PWSCC Susceptibility of Alloy 690 -- Relationship among Dislocation Density, Local Strain Distribution, and PWSCC Susceptibility of Alloy 690 -- Morphology Evolution of Grain Boundary Carbides Precipitated near Triple Junctions in Highly Twinned Alloy 690 -- A Mechanistic Study on the Stress Corrosion Crack Propagation for Heavily Cold Worked TT Alloy 690 in Simulated PWR Primary Water -- Microstructural Study on the Stress Corrosion Cracking of Alloy 690 in Simulated Pressurized Water Reactor Primary Environment -- Part 6. Effect of Strain Rate and High Temperature Water on Deformation Structure of VVER Neutron Irradiated Core Internals Steel -- Radiation-Induced Precipitates in a Self-Ion Irradiated Cold-Worked 316 Austenitic Stainless Steel Used for PWR Baffle-Bolts.-In Situ and Ex Situ Observations of the Influence of Twin Boundaries on Heavy Ion Irradiation Damage Effects in 316L Austenitic Stainless Steels -- In Situ Microtensile Testing for Ion Beam Irradiated Materials -- Development of High Irradiation Resistance and Corrosion Resistance Oxide Dispersion Strengthened Austenitic Stainless Steels -- Probing Damage Gradients in Ion-irradiated Tungsten Using Spherical Nanoindentation -- Part 7. Irradiation Damage – Swelling -- Formation of He Bubbles by Repair-welding in Neutron-irradiated Stainless Steels Containing Surface Cold Worked Layer -- Predictions and Measurements of Helium and Hydrogen in PWR Structural Components Following Neutron Irradiation and Subsequent Charged Particle Bombardment -- Emulating Neutron-induced Void Swelling in Stainless Steels Using Ion Irradiation -- Carbon Contamination, Its Consequences and Its Mitigation in Ion-simulation of Neutron-induced Swelling of Structural Steels -- Void Swelling Screening Criteria for Stainless Steels in PWR Systems -- Theoretical Study of Swelling of Structural Materials in Light Water Reactors at High Fluencies -- Part 8.



Irradiation Damage - Nickel Based and Low Alloy -- High Resolution Transmission Electron Microscopy of Irradiation Damage in Inconel X-750 -- In-situ SEM Push-to-pull Micro-tensile Testing of in Service Inconel X-750 Annulus Spacers -- Microstructural Characterization of Proton-irradiated 316 Stainless Steels by Transmission Electron Microscopy and Atom Probe Tomography -- Part 9. PWR Stainless Steel SCC and Fatigue -- SCC -- Microstructural Effects on Stress Corrosion Initiation in Austenitic Stainless Steel in PWR Environments -- Oxidation and SCC Initiation Studies of Type 304L SS in PWR Primary Water -- SCC Initiation in the Machined Austenitic Stainless Steel 316L in Simulated PWR Primary Water -- High-resolution Characterisation of Austenitic Stainless Steel in PWR Environments: Effect of Strain and Surface Finish on Crack Initiation and Propagation -- SCC of Austenitic Stainless Steels under Off-normal Water Chemistry and Surface Conditions Part I: Surface Conditions and Baseline Tests in Nominal PWR Primary Environment -- SCC of Austenitic Stainless Steels under Off-normal Water Chemistry and Surface Conditions Part II: Off Normal Chemistry -- Long Term Oxygen Conditions and Oxygen Transients -- The Effect of Microchemistry on the Crack Response of Lightly Cold Worked Dual Certified Type 304/304L Stainless Steel after Sensitizing Heat Treatment -- Part 10. PWR Stainless Steel SCC and Fatigue -- Fatigue -- The Effect of Load Ratio on the Fatigue Crack Growth Rate of Type 304 Stainless Steels in Air and High Temperature Water at 482\176F -- Electrical Potential Drop Observations of Fatigue Crack Closure -- The Effect of Environment and Material Chemistry on Single-Effects Creep Testing of Austenitic Stainless Steels -- Corrosion Fatigue Behavior of Austenitic Stainless Steel in Pure D2O Environment -- Mechanistic Understanding of Environmentally Assisted Fatigue Crack Growth of Austenitic Stainless Steels in PWR Environments -- Study on Hold-Time Effects in Environmental Fatigue Lifetime of Low-alloy Steel and Austenitic Stainless Steel in Air and under Simulated PWR Primary Water Conditions -- Part 11. Special Topics I -- Materials -- Evaluation of Additively Manufactured Materials for Use as Nuclear Plant Components -- Hot Cell Tensile Testing of Neutron Irradiated Additively Manufactured Type 316L Stainless Steel -- Computational and Experimental Studies on Novel Materials for Fission Gas Capture -- Hydrogen Assisted Cracking Studies of a 12% Chromium Martensitic Stainless Steel -- Influence of Hardness, Stress and Environment -- Investigation of Flow Accelerated Corrosion Models to Predict the Corrosion Behavior of Coated Carbon Steels in Secondary Piping Systems -- Effect of High-Temperature Water Environment on the Fracture Behaviour of Low-alloy RPV Steels -- Corrosion Fatigue Testing of Low Alloy Steel in Water Environments with Low Levels of Oxygen and Varied Load Dwell Times -- U-1: Feasibility Study of the Internal Zr/ZrO<sub>2</sub> Reference Electrodes in Supercritical Water Environments -- Part 12. Special Topics II -- Processes -- Investigation Of Pitting Corrosion In Sensitized Modified High-Nitrogen 316LN Steel After Neutron Irradiation -- Quantifying Erosion-corrosion Impacts on Light Water Reactor Piping -- Effect of Molybdate Anion Addition on Repassivation of Corroding Crevice in Austenitic Stainless Steel -- Effect of pH on Hydrogen Pick-up and Corrosion in Zircaloy-4 -- Oxidation Kinetics of Austenitic Stainless Steels as SCWR Fuel Cladding Candidate Materials in Supercritical Water -- A Recent Look at CANDU Feeder Cracking: High Resolution Transmission Electron Microscopy and Electron Energy Loss near Edge Structure (ELNES) -- Part 13. Cables and Concrete Aging and Degradation -- Cables -- Simultaneous Thermal and Gamma Radiation Aging of Electrical Cable Polymers -- Principal Component Analysis (PCA) as a Statistical Tool for Identifying

Key Indicators of Nuclear Power Plant Cable Insulation Degradation --  
How Can Material Characterization Support Cable Aging Management?  
-- Aqueous Degradation in Harvested Medium Voltage Cables in  
Nuclear Power Plants -- Frequency Domain Reflectometry Modeling and  
Measurement for Nondestructive Evaluation of Nuclear Power Plant  
Cables -- Aging Mechanisms and Nondestructive Aging Indicator of  
Filled Cross-linked Polyethylene (XLPE) Exposed to Simultaneous  
Thermal and Gamma Radiation -- Successful Detection of Insulation  
Degradation in Cables by Frequency Domain Reflectometry --  
Capacitive Nondestructive Evaluation of Aged Cross-Linked  
Polyethylene (XLPE) Cable Insulation Material -- C-2: Tracking of  
Nuclear Cable Insulation Polymer Structural Changes using the Gel  
Fraction and Uptake Factor Method -- C-4: Degradation of Silicone  
Rubber Analyzed by Instrumental Analyses and Dielectric Spectroscop.

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Sommario/riassunto

This two-volume set represents a collection of papers presented at the 18th International Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors. The purpose of this conference series is to foster an exchange of ideas about problems and their remedies in water-cooled nuclear power plants of today and the future. Contributions cover problems facing nickel-based alloys, stainless steels, pressure vessel and piping steels, zirconium alloys, and other alloys in water environments of relevance. Components covered include pressure boundary components, reactor vessels and internals, steam generators, fuel cladding, irradiated components, fuel storage containers, and balance of plant components and systems.

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