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Nota di contenuto	Content and Effect of 19th-century Gendered Nativism -- "Women of Two Countries" as Critics, Translators and Messengers -- The Complex Place of Women of Two Countries -- A German-American Movement : Critical Opponents -- Imagining Opposition to Nativism -- Mathilde Wendt's Powerful Words : Die Neue Zeit -- Mathilde Wendt's Activism : Deutscher Frauenstimmrechtsverein -- Opposition as a Dual Strategy -- Mathilde Franziska Anneke : Powerful Translator -- Anneke's Identification with the Women's Rights Movement -- Translating Nativism -- Anneke's Efforts on Behalf of the Germans -- Ethnicity as Anneke's Source of Power -- Clara Neymann : Transatlantic Messenger -- Neymann's German-American political apprenticeship -- Women Suffrage and Temperance in Nebraska -- Neymann's Ethnicization at NWSA Washington Conventions -- Neymann as Messenger in Germany -- The Transatlantic Space of "Women of Two Countries" -- The

Ascendance of the US-American Avant-Garde -- The Paradox of Nativism.

Sommario/riassunto

German-American women played many roles in the US women's rights movement from 1848 to 1890. This book focuses on three figures- Mathilde Wendt, Mathilde Franziska Anneke, and Clara Neymann-who were simultaneously included and excluded from the nativist women's rights movement. Accordingly, their roles and arguments differed from those of their American colleagues, such as Susan B. Anthony, Elizabeth Cady Stanton, or Lucy Stone. Moreover, German-American feminists were confronted with the opposition to the women's rights movement in their ethnic community of German-Americans. As outsiders in th

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Titolo

Health monitoring of aerospace structures [[electronic resource]] : smart sensor technologies and signal processing // edited by W.J. Staszewski, C. Boller, and G.R. Tomlinson

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Soggetti

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Nota di contenuto

Health Monitoring of Aerospace Structures; Contents; List of Contributors; Preface; ACKNOWLEDGEMENTS; 1 Introduction; 1.1 Health and Usage Monitoring in Aircraft Structures - Why and How?; 1.2 Smart Solution in Aircraft Monitoring; 1.3 End-User Requirements; 1.3.1 Damage Detection; 1.3.2 Load History Monitoring; 1.4 Assessment of Monitoring Technologies; 1.5 Background of Technology Qualification Process; 1.6 Technology Qualification; 1.6.1 Philosophy; 1.6.2 Performance and Operating Requirements; 1.6.3 Qualification Evidence - Requirements and Provision; 1.6.4 Risks
1.7 Flight Vehicle Certification
1.8 Summary; References; 2 Aircraft Structural Health and Usage Monitoring; 2.1 Introduction; 2.2 Aircraft Structural Damage; 2.3 Ageing Aircraft Problem; 2.4 LifeCycle Cost of Aerospace Structures; 2.4.1 Background; 2.4.2 Example; 2.5 Aircraft Structural Design; 2.5.1 Background; 2.5.2 Aircraft Design Process; 2.6 Damage Monitoring Systems in Aircraft; 2.6.1 Loads Monitoring; 2.6.2 Fatigue Monitoring; 2.6.3 Load Models; 2.6.4 Disadvantages of Current Loads Monitoring Systems; 2.6.5 Damage Monitoring and Inspections; 2.7 Non-Destructive Testing
2.7.1 Visual Inspection
2.7.2 Ultrasonic Inspection; 2.7.3 Eddy Current; 2.7.4 Acoustic Emission; 2.7.5 Radiography, Thermography and Shearography; 2.7.6 Summary; 2.8 Structural Health Monitoring; 2.8.1 Vibration and Modal Analysis; 2.8.2 Impact Damage Detection; 2.9 Emerging Monitoring Techniques and Sensor Technologies; 2.9.1 Smart Structures and Materials; 2.9.2 Damage Detection Techniques; 2.9.3 Sensor Technologies; 2.9.4 Intelligent Signal Processing; 2.10 Conclusions; References; 3 Operational Load Monitoring Using Optical Fibre Sensors; 3.1 Introduction; 3.2 Fibre Optics
3.2.1 Optical Fibres
3.2.2 Optical Fibre Sensors; 3.2.3 Fibre Bragg Grating Sensors; 3.3 Sensor Target Specifications; 3.4 Reliability of Fibre Bragg Grating Sensors; 3.4.1 Fibre Strength Degradation; 3.4.2 Grating Decay; 3.4.3 Summary; 3.5 Fibre Coating Technology; 3.5.1 Polyimide Chemistry and Processing; 3.5.2 Polyimide Adhesion to Silica; 3.5.3 Silane Adhesion Promoters; 3.5.4 Experimental Example; 3.5.5 Summary; 3.6 Example of Surface Mounted Operational Load Monitoring Sensor System; 3.6.1 Sensors; 3.6.2 Optical Signal Processor; 3.6.3 Optical Interconnections
3.7 Optical Fibre Strain Rosette
3.8 Example of Embedded Optical Impact Detection System; 3.9 Summary; References; 4 Damage Detection Using Stress and Ultrasonic Waves; 4.1 Introduction; 4.2 Acoustic Emission; 4.2.1 Background; 4.2.2 Transducers; 4.2.3 Signal Processing; 4.2.4 Testing and Calibration; 4.3 Ultrasonics; 4.3.1 Background; 4.3.2 Inspection Modes; 4.3.3 Transducers; 4.3.4 Display Modes; 4.4 Acousto-Ultrasonics; 4.5 Guided Wave Ultrasonics; 4.5.1 Background; 4.5.2 Guided Waves; 4.5.3 Lamb Waves; 4.5.4 Monitoring Strategy; 4.6 Piezoelectric Transducers
4.6.1 Piezoelectricity and Piezoelectric Materials

Sommario/riassunto

Providing quality research for the reader, this title encompasses all the recent developments in smart sensor technology for health monitoring in aerospace structures, providing a valuable introduction to damage detection techniques. Focussing on engineering applications, all chapters are written by smart structures and materials experts from aerospace manufacturers and research/academic institutions. This key reference: Discusses the most important aspects related to smart technologies for damage detection; this includes not only monitoring techniques but also aspects r
