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Nota di contenuto	About the Special Issue Editors -- Preface to "Advanced Approaches Applied to Materials Development and Design Predictions" xi Jose Correia, Ab'lio De Jesus, Shun-Peng Zhu, Xiancheng Zhang and Dianyin Hu Advanced Simulation Tools Applied to Materials Development and Design Predictions -- Chun-Yi Zhang, Zhe-Shan Yuan, Ze Wang, Cheng-Wei Fei and Cheng Lu Probabilistic Fatigue/Creep Optimization of Turbine Bladed Disk with Fuzzy Multi-Extremum Response Surface Method -- Monika Duda, Joanna Pach and Grzegorz Lesiuk Influence of Polyurea Composite Coating on Selected Mechanical Properties of AISI 304 Steel -- Alexander Koch, Philipp Wittke and Frank Walther Computed Tomography-Based Characterization of the Fatigue Behavior and Damage Development of Extruded Profiles Made from Recycled AW6060 Aluminum Chips -- Xin Liu, Zheng Liu, Zhongwei Liang, Shun-Peng Zhu, Jose A. F. O. Correia and Abilio M. P. De Jesus PSO-BP Neural Network-Based Strain Prediction of Wind Turbine Blades -- Chunyi Zhang, Jingshan Wei, Huizhe Jing, Chengwei Fei and Wenzhong Tang Reliability-Based Low Fatigue Life Analysis of Turbine Blisk with Generalized Regression Extreme Neural Network Method-- Grzegorz Lesiuk Application of a New, Energy-Based S* Crack Driving Force for Fatigue Crack Growth Rate Description -- Jian Chen, Chao Li, Jian Zhang, Cong Li, Jianlin Chen and Yanjie Ren First-Principles Study on the Adsorption and Dissociation of Impurities on Copper Current Collector in Electrolyte for Lithium-Ion Batteries -- Sihai Luo, Liucheng Zhou, Xuede Wang, Xin

Cao, Xiangfan Nie and Weifeng He Surface Nanocrystallization and Amorphization of Dual-Phase TC11 Titanium Alloys under Laser Induced Ultrahigh Strain-Rate Plastic Deformation -- Shaoxiong Xie, Jiageng Xu, Yu Chen, Zhi Tan, Rui Nie, Qingyuan Wang and Jianguo Zhu Indentation Behavior and Mechanical Properties of Tungsten/Chromium co-Doped Bismuth Titanate Ceramics Sintered at Different Temperatures -- Grzegorz Lesiuk, Micha Smolnicki, Dariusz Rozumek, Halyna Krechovska, Oleksandra Student, Jose Correia, Rafa Mech and Abilio De Jesus Study of the Fatigue Crack Growth in Long-Term Operated Mild Steel under Mixed-Mode (I + II, I + III) Loading Conditions.

Sommario/riassunto

This thematic issue on advanced simulation tools applied to materials development and design predictions gathers selected extended papers related to power generation systems, presented at the XIX International Colloquium on Mechanical Fatigue of Metals (ICMFM XIX), organized at University of Porto, Portugal, in 2018. In this issue, the limits of the current generation of materials are explored, which are continuously being reached according to the frontier of hostile environments, whether in the aerospace, nuclear, or petrochemistry industry, or in the design of gas turbines where efficiency of energy production and transformation demands increased temperatures and pressures. Thus, advanced methods and applications for theoretical, numerical, and experimental contributions that address these issues on failure mechanism modeling and simulation of materials are covered. As the Guest Editors, we would like to thank all the authors who submitted papers to this Special Issue. All the papers published were peer-reviewed by experts in the field whose comments helped to improve the quality of the edition. We also would like to thank the Editorial Board of Materials for their assistance in managing this Special Issue.

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Autore	Jones Eric T
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ISBN	0-7006-3291-3
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Descrizione fisica	1 online resource (504 pages)
Collana	Development of Western Resources
Altri autori (Persone)	McLainRebecca J (Rebecca Jean) WeigandJames F CharnleySusan
Disciplina	338.1/7498/0973
Soggetti	Non-timber forest products Forest conservation - United States
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Cover -- Series Page -- Title Page -- Copyright Page -- Dedication -- Table of Contents -- List of Table and Figures -- Preface to the Kansas Open Books Edition -- Preface -- Introduction, Rebecca J. McLain and Eric T. Jones -- Part One. Past and Present -- Historical Overview of Nontimber Forest Product Uses in the Northeastern United States, Marla R. Emery -- The Relevance of Sociocultural Variables to Nontimber Forest Product Research, Policy, and Management, Eric T. Jones and Kathryn Lynch -- CASE STUDY: Workers in the Woods: Confronting Rapid Change, Richard Hansis -- CASE STUDY: Overview of Cultural Traditions, Economic Trends, and Key Species in Nontimber Forest Products of the Pacific Northwest, James Weigand -- CASE STUDY: The American Southwest, James Weigand -- CASE STUDY: The Caribbean Basin: Florida, Puerto Rico, and the U.S. Virgin Islands, James Weigand -- CASE STUDY: California, James Weigand -- CASE STUDY: Culture and Nontimber Forest Products in the American Pacific Tropics, James Weigand -- CASE STUDY: The Hidden Bounty of the Urban Forest, Paul Jahnige -- CASE STUDY: Rio Grande National Forest, Vince Spero and Carol Fleming -- Part Two. Commerce and Conservation -- Nontimber Forest Product Commerce, Susan J. Alexander, James Weigand, and Keith A. Blatner -- Ecological Considerations in Sustainable Use of Wild

Plants, Nan C. Vance -- The Paradox of Market-Oriented Conservation: Lessons from the Tropical Forests, Carolyn Crook and Roger Alex Clapp -- CASE STUDY: Extractive Reserves for the United States? Lessons from the Amazonian Experience, Thomas Love -- CASE STUDY: Certification of Nontimber Forest Products, Patrick Mallet -- Between Wildcrafting and Monocultures: Agroforestry Options, Wayne S. Teel and Louise E. Buck -- CASE STUDY: Native U.S. Plants in Honey and Pollen Production, Anita G. Alexander and Susan J. Alexander. Biological Inventory and Monitoring, Becky K. Kerns, Leon Liegel, David Pilz, and Susan J. Alexander -- Part Three. Native American Claims -- Indian Reserved Rights, Edmund Clay Goodman -- CASE STUDY: Ojibwe Off-Reservation Harvest of Wild Plants, Karen C. Danielsen and Jonathan H. Gilbert -- CASE STUDY: Making Peace in the Berry Patch: The 1932 Handshake Agreement and the Promise of Cultural Use Zones, Andrew H. Fisher -- CASE STUDY: Contemporary Subsistence Use of Nontimber Forest Products in Alaska, Robert Schroeder -- CASE STUDY: American Indian Management of Federal Lands: The Maidu Cultural and Development Group, Jonathan K. London -- Part Four. Policy and Management -- Federal Nontimber Forest Products Policy and Management, Alexios Antypas, Rebecca J. McLain, Jennifer Gilden, and Greg Dyson -- CASE STUDY: Business As Usual: The Exclusion of Mushroom Pickers in Wild Mushroom Management in Oregon's National Forests, Rebecca J. McLain -- CASE STUDY: Applying Stewardship Contracting Principles to Nontimber Forest Products, Paul Ringgold -- Part Five. Customary Claims to Use Rights on Public Lands -- Nontimber Forest Products Customary Claims, Edmund Clay Goodman -- APPENDIX A. Scientific Names of Species Listed by Common Name in Text -- APPENDIX B. Names of Referenced Plants -- APPENDIX C. USDA Forest Service Resource Inventories and NTFPs -- APPENDIX D. Edible Mushrooms-Unique Inventory and Monitoring Considerations -- APPENDIX E. Estimating Commercial Quantities of Floral Greens -- APPENDIX F. Traditional Forestry Methods to Inventory Tree Characteristics -- APPENDIX G. Inventory Methods for Commercial Moss Harvest -- APPENDIX H. Rogue Institute for Ecology and Economy Special Forest Products Inventory -- APPENDIX I. Monitoring Wild Goldenseal Populations -- List of Contributors -- Index -- Back Cover.

Sommario/riassunto

A quiet revolution is taking place in America's forests. Once seen primarily as stands of timber, our woodlands are now prized as a rich source of a wide range of commodities, from wild mushrooms and maple sugar to hundreds of medicinal plants whose uses have only begun to be fully realized. Now as timber harvesting becomes more mechanized and requires less labor, the image of the lumberjack is being replaced by that of the forager. This book provides the first comprehensive examination of nontimber forest products (NTFPs) in the United States, illustrating their diverse importance, describing the people who harvest them, and outlining the steps that are being taken to ensure access to them. As the first extensive national overview of NTFP policy and management specific to the United States, it brings together research from numerous disciplines and analytical perspectives-such as economics, mycology, history, ecology, law, entomology, forestry, geography, and anthropology-in order to provide a cohesive picture of the current and potential role of NTFPs. The contributors review the state of scientific knowledge of NTFPs by offering a survey of commercial and noncommercial products, an overview of uses and users, and discussions of sustainable management issues associated with ecology, cultural traditions, forest policy, and commerce. They examine some of the major social, economic, and biological benefits of NTFPs, while also addressing the

potential negative consequences of NTFP harvesting on forest ecosystems and on NTFP species populations. Within this wealth of information are rich accounts of NTFP use drawn from all parts of the American landscape-from the Pacific Northwest to the Caribbean. From honey production to a review of nontimber forest economies still active in the United States-such as the Ojibway "harvest of plants" recounted here-the book takes in the whole breadth of recent NTFP issues, including ecological concerns associated with the expansion of NTFP markets and NTFP tenure issues on federally managed lands. No other volume offers such a comprehensive overview of NTFPs in North America. By examining all aspects of these products, it contributes to the development of more sophisticated policy and management frameworks for not only ensuring their ongoing use but also protecting the future of our forests. Open access edition funded by the National Endowment for Humanities and the Andrew W. Mellon Foundation Humanities Open Book Program.
