

Robert E. Keane

Wildland Fuel Fundamentals and Application

 Springer

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Lei Shi

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Wildland Fuel Fundamentals And Applications:

Wildland Fuel Fundamentals and Applications Robert E. Keane, 2014-11-04 A new era in wildland fuel sciences is now evolving in such a way that fire scientists and managers need a comprehensive understanding of fuels ecology and science to fully understand fire effects and behavior on diverse ecosystem and landscape characteristics This is a reference book on wildland fuel science a book that describes fuels and their application in land management There has never been a comprehensive book on wildland fuels most wildland fuel information was put into wildland fire science and management books as separate chapters and sections This book is the first to highlight wildland fuels and treat them as a natural resource rather than a fire behavior input Moreover there has never been a comprehensive description of fuels and their ecology measurement and description under one reference most wildland fuel information is scattered across diverse and unrelated venues from combustion science to fire ecology to carbon dynamics The literature and data for wildland fuel science has never been synthesized into one reference most studies were done for diverse and unique objectives This book is the first to link the disparate fields of ecology wildland fire and carbon to describe fuel science This just deals with the science and ecology of wildland fuels not fuels management However since expensive fuel treatments are being planned in fire dominated landscapes across the world to minimize fire damage to people property and ecosystems it is incredibly important that people understand wildland fuels to develop more effective fuel management activities Scientific Perspectives on Wildfire Risk Management at the WUI Property Scale Miguel Almeida, The dramatic impacts of wildfires worldwide particularly when they reach Wildland Urban Interface WUI areas are the primary motivation for this book which focuses on fire risk management in the defensible space around buildings It offers different perspectives on WUI characterization vulnerability ignition mechanisms fuels management self protection systems fire behavior modeling and regulations With contributions from experts worldwide the book provides an integrated view of key aspects and developments in WUI fire risk management

Remote Sensing Applications in Environmental and Earth System Sciences Nicolas R. Dalezios, 2021-05-11 Remote Sensing Applications in Environmental and Earth System Sciences is a contemporary multi disciplinary multi scaling updated and upgraded approach of applied remote sensing in the environment The book begins with an overview of remote sensing technology and then explains the types of data that can be used as well as the image processing and analysis methods that can be applied to each type of application through the use of case studies throughout Includes a wide spectrum of environmental applications and issues Explains methodological image analysis and interpretation procedures for conducting a variety of environmental analyses Discusses the development of early warning systems Covers monitoring of the environment as a whole atmosphere land and water Explores the latest remote sensing systems in environmental applications This book is an excellent resource for anyone who is interested in remote sensing technologies and their use in Earth systems natural resources and environmental science Fire Regimes: Spatial and Temporal Variability and Their Effects on Forests

Yves Bergeron, Sylvie Gauthier, 2018-04-13 This book is a printed edition of the Special Issue Fire Regimes Spatial and Temporal Variability and Their Effects on Forests that was published in Forests [Fire Science](#) Francisco Castro Rego, Penelope Morgan, Paulo Fernandes, Chad Hoffman, 2021-09-24 This textbook provides students and academics with a conceptual understanding of fire behavior and fire effects on people and ecosystems to support effective integrated fire management Through case studies interactive spreadsheets programmed with equations and graphics and clear explanations the book provides undergraduate graduate and professional readers with a straightforward learning path The authors draw from years of experience in successfully teaching fundamental concepts and applications synthesizing cutting edge science and applying lessons learned from fire practitioners We discuss fire as part of environmental and human health Our process based comprehensive and quantitative approach encompasses combustion and heat transfer and fire effects on people plants soils and animals in forest grassland and woodland ecosystems from around the Earth Case studies and examples link fundamental concepts to local landscape and global fire implications including social ecological systems Globally fire science and integrated fire management have made major strides in the last few decades Society faces numerous fire related challenges including the increasing occurrence of large fires that threaten people and property smoke that poses a health hazard and lengthening fire seasons worldwide Fires are useful to suppress fires conserve wildlife and habitat enhance livestock grazing manage fuels and in ecological restoration Understanding fire science is critical to forecasting the implication of global change for fires and their effects Increasing the positive effects of fire fuels reduction enhanced habitat for many plants and animals ecosystem services increased while reducing the negative impacts of fires loss of human lives smoke and carbon emissions that threaten health etc is part of making fires good servants rather than bad masters Fire Ecology and Management: Past, Present, and Future of US Forested Ecosystems Cathryn H. Greenberg, Beverly Collins, 2021-10-01 This edited volume presents original scientific research and knowledge synthesis covering the past present and potential future fire ecology of major US forest types with implications for forest management in a changing climate The editors and authors highlight broad patterns among ecoregions and forest types as well as detailed information for individual ecoregions for fire frequencies and severities fire effects on tree mortality and regeneration and levels of fire dependency by plant and animal communities The foreword addresses emerging ecological and fire management challenges for forests in relation to sustainable development goals as highlighted in recent government reports An introductory chapter highlights patterns of variation in frequencies severities scales and spatial patterns of fire across ecoregions and among forested ecosystems across the US in relation to climate fuels topography and soils ignition sources lightning or anthropogenic and vegetation Separate chapters by respected experts delve into the fire ecology of major forest types within US ecoregions with a focus on the level of plant and animal fire dependency and the role of fire in maintaining forest composition and structure The regional chapters also include discussion of historic natural lightning ignited and

anthropogenic Native American settlers fire regimes current fire regimes as influenced by recent decades of fire suppression and land use history and fire management in relation to ecosystem integrity and restoration wildfire threat and climate change The summary chapter combines the major points of each chapter in a synthesis of US wide fire ecology and forest management into the future This book provides current organized readily accessible information for the conservation community land managers scientists students and educators and others interested in how fire behavior and effects on structure and composition differ among ecoregions and forest types and what that means for forest management today and in the future *Landscape Fire, Smoke, and Health* Tatiana V. Loboda, Nancy H. F. French, Robin C. Puett, 2023-10-11 A

transdisciplinary approach to investigating relationships between biomass burning and human health outcomes Where and when wildfires occur what pollutants they emit how the chemistry of smoke changes in the atmosphere and what impact this air pollution has on human health and well being are questions explored across different scientific disciplines *Landscape Fire Smoke and Health Linking Biomass Burning Emissions to Human Well Being* is designed to create a foundational knowledge base allowing interdisciplinary teams to interact more effectively in addressing the impacts of air pollution from biomass burning on human health Volume highlights include Core concepts principles and terminology related to smoke and air quality used in different disciplines Observational and modeling tools and approaches in fire science Methods to sense model and map smoke in the atmosphere Impacts of biomass burning smoke on the health and well being of children and adults Perspectives from researchers modelers and practitioners Case studies from different countries Information to support decision making and policy The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Extreme Weather Forecasting Marina Astitha, Efthymios I. Nikolopoulos, 2022-10-11 Extreme Weather Forecasting reviews current knowledge about extreme weather events including key elements and less well known variables to accurately forecast them The book covers multiple temporal scales as well as components of current weather forecasting systems Sections cover case studies on successful forecasting as well as the impacts of extreme weather predictability presenting a comprehensive and model agnostic review of best practices for atmospheric scientists and others who utilize extreme weather forecasts Reviews recent developments in numerical prediction for better forecasting of extreme weather events Covers causes and mechanisms of high impact extreme events and how to account for these variables when forecasting Includes numerous case studies on successful forecasting outlining why they worked **Canadian Journal of Forest Research** ,2016-04 Directory of Fire Research in the United States, 1971-1973 ,1975-01-01 **Directory of Fire Research in the United States** National Research Council (U.S.). Committee on Fire Research,1971 **Fire and Fuel Management in Mediterranean-climate Ecosystems** James K. Agee,1979 Idaho Environmental Overview James M. Montgomery, Consulting Engineers,1975 **Emergency Incident Management Systems** Louis N. Molino,2006-04-12

Emergency Incident Management Systems Louis N. Molino,2006-04-12

Incident Management Systems IMS provide the means by which to coordinate the efforts of individual agencies in order to stabilize an incident and protect life property and the environment Born from the FireScope project of the late 1960s which was developed in response to the major wildfires that regularly plagued Southern California these systems have evolved with many similarities and certain fundamental differences The author contrasts the major forms of Incident Management Incident Command Systems and from a practitioner s viewpoint bridges the gap between their theoretical and academic foundations and their real world applications The book features an in the field point of view coverage of incidents of mass destruction filled out sample forms designed to aid professionals in completing reports Selected Rand Abstracts Rand Corporation,1963 Includes Reports R series Rand Memorandums RM series papers P series and Books The International Bibliography of Wildland Fire Jason M. Greenlee,1995 Earth Resources ,1982 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International Aerospace Abstracts IAA **Toward a Theory of Meso-scale Wildfire Modeling** Ronald J. McCormick,2001 **Bibliography of Agriculture** ,1992-06
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