



HEMLOCK

A Forest Giant on the Edge

DAVID R. FOSTER, Editor

Hemlock A Forest Giant On The Edge

Tim Palmer



Hemlock A Forest Giant On The Edge:

Hemlock David R. Foster, Stephen Long, Benjamin H. Baiser, 2008 *Hemlock* Anthony D'Amato, Benjamin Baiser, Aaron M. Ellison, David Foster, David Orwig, Wyatt Oswald, Audrey Barker Plotkin, Jonathan Thompson, 2014-04-29 An appreciation of the beautiful iconic and endangered Eastern Hemlock and what it means to nature and society The Eastern Hemlock massive and majestic has played a unique role in structuring northeastern forest environments from Nova Scotia to Wisconsin and through the Appalachian Mountains to North Carolina Tennessee and Alabama A foundation species influencing all the species in the ecosystem surrounding it this iconic North American tree has long inspired poets and artists as well as naturalists and scientists Five thousand years ago the hemlock collapsed as a result of abrupt global climate change Now this iconic tree faces extinction once again because of an invasive insect the hemlock woolly adelgid Drawing from a century of studies at Harvard University's Harvard Forest one of the most well regarded long term ecological research programs in North America the authors explore what hemlock's modern decline can tell us about the challenges facing nature and society in an era of habitat changes and fragmentation as well as global change **The Story of a Forest** Robert Kuhn McGregor, 2018-02-13 The re-established forests of the Upper Delaware exist as a living reminder of centuries of both exploitation and good intentions Emerging after the last glaciation they were first modified by Native Americans to promote hunting and limited agriculture The forests began to disappear as Europeans clear cut farmland and fed sawmills and tanneries The advent of the railroad accelerated demand and within 30 years industry had consumed virtually every mature tree in the valley leaving barren hillsides subject to erosion and flooding Even as unchecked cutting continued conservation efforts began to save what little remained A century and a half later a forest for the 21st century has emerged an ecological patchwork protected by a web of governmental agencies yet still subject to danger from humans Twilight of the Hemlocks and Beeches Tim Palmer, 2018-08-09 In this magnificently illustrated book conservationist and celebrated outdoors photographer Tim Palmer launches us on a revealing journey among the hemlock and beech trees that have for millennia towered over America's eastern woodlands The eastern hemlock and North American beech once thrived from Maine to Georgia casting shade on trout streams nourishing wildlife large and small and gracing uncounted valleys mountainsides parks and backyards These trees now face tragic decimation by exotic insects and pathogens Palmer's photos record the splendor of the cherished hemlock and beech in the same way that pictures of iconic historic buildings commemorate classic landmarks gone the way of the wrecking ball And yet as Palmer underscores in his final chapter the lessons learned as we address the fate of these trees can help us chart a better course for all wooded landscapes in the years ahead This story of loss scientific inquiry and prospective recovery is vital to understanding nature in our time As an act of artistic preservation a report on the science vital to the survival of these trees and a call to action *Twilight of the Hemlocks and Beeches* assures a lasting legacy for this irreplaceable forest community With more than one hundred exquisite full color photographs this book

is a must have for outdoor enthusiasts natural historians ecologists and all lovers of nature **Witness Tree** Lynda Mapes,2017-04-11 An intimate look at one majestic hundred year old oak tree through four seasons and the reality of global climate change it reveals In the life of this one grand oak we can see for ourselves the results of one hundred years of rapid environmental change It s leafing out earlier and dropping its leaves later as the climate warms Even the inner workings of individual leaves have changed to accommodate more CO2 in our atmosphere Climate science can seem dense remote and abstract But through the lens of this one tree it becomes immediate and intimate In *Witness Tree* environmental reporter Lynda V Mapes takes us through her year living with one red oak at the Harvard Forest We learn about carbon cycles and leaf physiology but also experience the seasons as people have for centuries watching for each new bud and listening for each new bird and frog call in spring We savor the cadence of falling autumn leaves and glory of snow and starry winter nights Lynda takes us along as she climbs high into the oak s swaying boughs and scientists core deep into the oak s heartwood dig into its roots and probe the teeming life of the soil She brings us eye level with garter snakes and newts and alongside the squirrels and jays devouring the oak s acorns Season by season she reveals the secrets of trees how they work and sustain a vast community of lives including our own The oak is a living timeline and witness to climate change While stark in its implications *Witness Tree* is a beautiful and lyrical read rich in detail sweeps of weather history people and animals It is a story rooted in hope beauty wonder and the possibility of renewal in people s connection to nature

Mourning in the Anthropocene Joshua Trey Barnett,2022-08-01 Enormous ecological losses and profound planetary transformations mean that ours is a time to grieve beyond the human Yet Joshua Trey Barnett argues in this eloquent and urgent book our capacity to grieve for more than human others is neither natural nor inevitable Weaving together personal narratives theoretical meditations and insightful readings of cultural artifacts he suggests that ecological grief is best understood as a rhetorical achievement As a collection of worldmaking practices rhetoric makes things matter bestows value directs attention generates knowledge and foments feelings By dwelling on three rhetorical practices naming archiving and making visible Barnett shows how they prepare us to grieve past present and future ecological losses Simultaneously diagnostic and prescriptive this book reveals rhetorical practices that set our ecological grief into motion and illuminates pathways to more connected caring earthly coexistence *Architecture and the Forest Aesthetic* Jana

VanderGoot,2017-12-22 Despite population trends toward urbanization the forest continues to have a strong appeal to the human imagination and the human preference for forest over many other types of terrain is well documented This book re imagines architecture and urbanism by allowing the forest to be a prominent consideration in the language of design thus recognizing the forest as essential rather than just incidental to human well being In *Architecture and the Forest Aesthetic* forest is a large scale urban construct that is far more extensive and nuanced than trees and shrubbery The forest aesthetic opens designers to the forest as a model for an urban architecture of permeable floors protective canopies connected food

chains beneficial decomposition and resilient ecologies Much can be learned about these features of the forest from the natural sciences however when they are given due consideration technically and metaphorically in the design of urban habitat the places in which humans live become living forests What is present here in Architecture and the Forest Aesthetic is both a review of many ingenious ways in which the forest aesthetic has already been expressed in design and urbanism and an encouragement to further use the forest aesthetic in design language and design outcomes Case study projects featured include the Chilotan building craft of Southern Chile the yaki sugi of Japan the Biltmore Forest in the Southeastern United States the Australian capital city Canberra Bosco Verticale in Milan Italy the Beijing Olympic Forest Park in China and more

Biodiversity and Conservation in Forests Diana F. Tomback,2019-01-18 This book is a printed edition of the Special Issue Biodiversity and Conservation in Forests that was published in Forests Slow Wood Cass R. Sunstein,2024-11-26 A radical proposal for healing the relationship between humans and forests through responsible sustainable use of local and regional wood in home building American homes are typically made of lumber and plywood delivered by a global system of ruthless extraction or of concrete and steel which are even worse for the planet Wood is often the most sustainable material for building but we need to protect diverse forests as much as we desperately need more houses Brian Donahue addresses this modern conundrum by documenting his experiences building a timber frame home from the wood growing on his family farm practicing worst first forestry Through the stories of the trees he used sugar maple black cherry black birch and hemlock and some he didn't white pine and red oak the book also explores the history of Americans relationship with their forests Donahue provides a new interpretation of the connection between American houses and local woodlands He delves into how this bond was broken by the rise of a market economy of industrial resource extraction and addresses the challenge of restoring a more enduring relationship Ultimately this book provides a blueprint and a stewardship plan for how to live more responsibly with the woods offering a sustainable approach to both forestry and building centered on tightly connected ecological and social values

Field Guide to the Patchy Anthropocene Anna Lowenhaupt Tsing,Jennifer Deger,Alder Keleman Saxena,Feifei Zhou,2024-05-07 Nature has gone feral How can we re attune ourselves to the new nature A field guide can help While the global scientific community recently made headlines by ruling the Anthropocene an era many date to the Industrial Revolution when human action truly began to transform the planet did not qualify for a geological epoch quite yet understanding the nature of human transformation of the Earth is more important than ever The effects of human activity are global in scope but take shape within distinct social and ecological patches discontinuous regions within which the key actors may not be human but the plants animals fungi viruses plastics and chemicals creating our new world Field Guide to the Patchy Anthropocene takes stock of our current planetary crisis leading readers through a series of sites thought experiments and genre stretching descriptive practices to nurture a revitalized natural history Field guides teach us how to notice name and so better appreciate more than human worlds They hone our powers of observation and teach us to

see the world anew Field based observations and place based knowledge cultivation getting up close and personal with patchy dynamics are vital to truly grapple with the ecological challenges and the historical conjunctures that are bringing us to multiple catastrophic tipping points How has commercial agriculture runoff given rise to comb jellies in the Black Sea What role did the Atlantic slave trade play in the worldwide spread of virus carrying mosquitoes How did the green revolution transform the brown planthopper into a superpredator in Philippine rice fields Questions like these open up new ways of understanding and ways of living through the epoch that human activity has ushered in This Field Guide shifts attention away from knowledge extractive practices of globalization to encourage skilled observers of many stripes to pursue their commitments to place social justice and multispecies community It is through attention to the beings places ecologies and histories of the Anthropocene that we can reignite curiosity wonder and care for our damaged planet

A Meeting of Land and Sea David R. Foster, 2017-01-01 An eminent ecologist shows how an iconic New England island has been shaped by nature and human history and how its beloved landscape can be protected Full of surprises bedecked with gorgeous photographs and maps and supported by unprecedented historical and ecological research this book awakens a new perspective on the renowned New England island Martha's Vineyard David Foster explores the powerful natural and cultural forces that have shaped the storied island to arrive at a new interpretation of the land today and a well informed guide to its conservation in the future Two decades of research by Foster and his colleagues at the Harvard Forest encompass the native people and prehistory of the Vineyard climate change and coastal dynamics colonial farming and modern tourism as well as land planning and conservation efforts Each of these has helped shape the island of today and each also illuminates possibilities for future caretakers of the island's ecology Foster affirms that Martha's Vineyard is far more than just a haven for celebrities presidents and moguls it is a special place with a remarkable history and a population with a proud legacy of caring for the land and its future

Forest Plans of North America Jacek P. Siry, Pete Bettinger, Krista Merry, Donald L. Grebner, Kevin Boston, Chris Cieszewski, 2015-03-13 Forest Plans of North America presents case studies of contemporary forest management plans developed for forests owned by federal state county and municipal governments communities families individuals industry investment organizations conservation organizations and others in the United States Canada and Mexico The book provides excellent real life examples of contemporary forest planning processes the various methods used and the diversity of objectives and constraints faced by forest owners Chapters are written by those who have developed the plans with each contribution following a unified format and allowing a common clear presentation of the material along with consistent treatment of various aspects of the plans This work complements other books published by members of the same editorial team Forest Management and Planning Introduction to Forestry and Natural Resource Management which describe the planning process and the various methods one might use to develop a plan but in general do not as this work does illustrate what has specifically been developed by landowners and land managers This is an in depth compilation of case

studies on the development of forest management plans by the different landowner groups in North America The book offers students practitioners policy makers and the general public an opportunity to greatly improve their appreciation of forest management and more importantly foster an understanding of why our forests today are what they are and what forces and tools may shape their tomorrow Forest Plans of North America provides a solid supplement to those texts that are used as learning tools for forest management courses In addition the work functions as a reference for the types of processes used and issues addressed in the early 21st century for managing land resources Presents 40 50 case studies of forest plans developed for a wide variety of organizations groups and landowners in North America Illustrates plans that have specifically been developed by landowners and land managers Features engaging clearly written content that is accessible rather than highly technical while demonstrating the issues and methods involved in the development of the plans Each chapter contains color photographs maps and figures

Art, Ecology, and the Resilience of a Maine Island Barry A. Logan, Jennifer Pye, Frank H. Goodyear III, 2024-09-03 A richly illustrated catalogue of visual art recording the changing ecology of Monhegan Island a renowned artist destination off the coast of Maine With its rugged shoreline magnificent Cathedral Woods and rustic cedar shingled homes Monhegan Island is quintessential Maine This historic fishing village situated 10 miles off the coast has long been a haven for artists drawn to the splendor of its ocean vistas and picturesque wildlands and for ecologists fascinated by its complex natural history Merging art science and history this book explores the broad arc of ecological events on the island the formation and abandonment of pastureland forest recovery and the critical importance of land conservation through their representation in visual art Indeed for well over a century painters photographers printmakers and cartographers alike have observed and depicted this dynamic landscape Inspired by a Rockwell Kent painting of white spruce saplings set against blue sea and golden sky biologist Barry Logan recognized that the island s ecology could be traced through its artistic depictions across the ages This collaboration between Logan and Monhegan historian Jennifer Pye and art historian Frank Goodyear yields a new and unprecedented survey of the art of the island through the lens of ecology This story of Monhegan parallels that of other land conservation efforts throughout the country yet it is one uniquely well told by island artists ecologists historians and community members

Born of Fire and Rain Hoda Barakat, 2024-10-29 Go beyond the scenery of the Pacific temperate rainforest to witness how complex ecosystems survive in a world of upheavals If you live on a rapidly changing planet you d be wise to learn how it works The giant old forests on a skinny stretch of land on the far west coast of North America have a lot to say about living in a twitchy world In this engaging book science writer M L Herring takes readers into the Pacific temperate rainforest at the tumultuous edge of a shifting continent in a precarious moment of time Readers peek behind the magnificent scenery into a forest of ancient trees exploding mountains disappearing owls tsunamis megafires and ten million people to learn what it means to be a forest in a world of upheavals Through Herring s words and pictures readers drift into the canopy through masses of ferns and lichens burrow into soil

through hair thin threads of fungi and plunge headlong through a watershed flushed with rain and snowmelt Readers experience the temperate rainforest through science and art as it faces a shifting climate and the shifting priorities of a constantly changing society The book journeys beyond the grid of latitude and longitude and into places only one s imagination can fit to discover what it means to be human in an ecological world **Take to the Trees** Marguerite Holloway,2025-05-13 One of Heatmap s Climate Books to Read in 2025 An empowering journey into the overstory with the arborists and forest experts safeguarding our iconic trees Journalist Marguerite Holloway arrives at the Women s Tree Climbing Workshop as a climbing novice but with a passion for trees and a deep concern about their future Run by twin sister tree doctors Bear LeVangie and Melissa LeVangie Ingersoll the workshop helps people from everyday tree lovers to women arborists working in a largely male industry develop impressive technical skills and ascend into the canopy As Holloway tackles unfamiliar equipment and dizzying heights she learns about the science of trees and tells the stories of charismatic species including hemlock aspen Atlantic white cedar oak and beech She spotlights experts who are chronicling the great dying that is underway in forests around the world as trees face simultaneous and accelerating threats from drought heat floods disease and other disruptions As she climbs Holloway also comes to understand the profound significance of trees in her relationship with her late mother and brother The book s rousing final chapter offers something new a grander environmental and arboreal optimism in which the story of trees and their resilience meshes with that of people working to steward the forests of the future and of community found among fellow tree climbers A lyrical work of memoir and reportage Take to the Trees sounds the alarm about rapid arboreal decline while also offering hope about how we might care for our forests and ourselves *Reading Shaver s Creek* Ian Marshall,2018-02-16 What does it mean to know a place What might we learn about the world by returning to the same place year after year What would a long term record of such visits tell us about change and permanence and our place in the natural world This collection explores these and related questions through a series of reflective essays and poems on Pennsylvania s Shaver s Creek landscape from the past decade Collected as part of The Ecological Reflections Project a century long effort to observe and document changes to the natural world in the central Pennsylvanian portion of the Appalachian Forest these pieces show how knowledge of a place comes from the information and perceptions we gather from different perspectives over time They include Marcia Bonta s keen observations about how humans knowingly and unknowingly affect the landscape Scott Weidensaul s view of the forest as a battlefield and Katie Fallon describing the sounds of human and nonhuman life along a trail Together these selections create a place based portrait of a vivid ecosystem during the first decade of the twenty first century Featuring contributions by nationally known nature writers and local experts Reading Shaver s Creek is a unique complex depiction of the central Pennsylvania landscape and its ecology We know the land and creatures of places such as Shaver s Creek are bound to change throughout the century This book is the first step to documenting how In addition to the editor contributors to this

volume are Marcia Bonta Michael P Branch Todd Davis Katie Fallon David Gessner Hannah Inglesby John Lane Carolyn Mahan Jacy Marshall McKelvey Steven Rubin David Taylor Julianne Lutz Warren and Scott Weidensaul **Naturally Curious Day by Day** Mary Holland,2016-11-07 This follow up to Naturally Curious a National Outdoor Book Award winner is a day by day account of nature observations throughout the year Daily entries include entertaining and enlightening observations about specific animal or plant activity happening in eastern North America on that date Set up as a naturalist s journal entries describe in detail sightings and events in the natural world and are accompanied by stunning color photographs of birds animals insects plants and more Essays throughout describe specific events in nature happening during each month while sidebars supply natural history facts and information pertinent to the topics of the month or the time of year **White Pine** John Pastor,2023-01-05 The iconic white pine has played a vital role in shaping the ecology of the North Woods from Maine to Minnesota and the sought after trunks of its mature trees have influenced American history from the American Revolution to the Civilian Conservation Corps A foundation species that defines the structure of the ecosystem white pine has been foundational in other ways as a cultural touchstone and economic driver throughout their range In White Pine John Pastor will weave together ecological and human elements tracing many critical roles white pine forests play in the North Woods and beyond Since the clearcutting heyday of the nineteenth and twentieth centuries white pine has staged an impressive comeback yet today climate change poses a new and growing threat to the species survival There is hope for the iconic tree however seemingly opposing groups including a longtime logging family and scientists at The Nature Conservancy are pioneering new ways to protect and restore white pine forests Throughout American history the white pine has often been a symbol of the conflict between capitalism and conservation but with Pastor s guidance looking back at white pine s past can show us a new path forward Routledge Handbook of Art, Science, and Technology Studies Hannah Rogers,Megan Halpern,Dehlia Hannah,Kathryn de Ridder-Vignone,2021-12-22 Art and science work is experiencing a dramatic rise coincident with burgeoning Science and Technology Studies STS interest in this area Science has played the role of muse for the arts inspiring imaginative reconfigurations of scientific themes and exploring their cultural resonance Conversely the arts are often deployed in the service of science communication illustration and popularization STS scholars have sought to resist the instrumentalization of the arts by the sciences emphasizing studies of theories and practices across disciplines and the distinctive and complementary contributions of each The manifestation of this commonality of creative and epistemic practices is the emergence of Art Science and Technology Studies ASTS as the interdisciplinary exploration of art science This handbook defines the modes practices crucial literature and research interests of this emerging field It explores the questions methodologies and theoretical implications of scholarship and practice that arise at the intersection of art and STS Further ASTS demonstrates how the arts are intervening in STS Drawing on methods and concepts derived from STS and allied fields including visual studies performance studies design studies science communication and aesthetics and

the knowledge of practicing artists and curators ASTS is predicated on the capacity to see both art and science as constructions of human knowledge making Accordingly it posits a new analytical vernacular enabling new ways of seeing understanding and thinking critically about the world This handbook provides scholars and practitioners already familiar with the themes and tensions of art science with a means of connecting across disciplines It proposes organizing principles for thinking about art science across the sciences social sciences humanities and arts Encounters with art and science become meaningful in relation to practices and materials manifest as perceptual habits background knowledge and cultural norms As the chapters in this handbook demonstrate a variety of STS tools can be brought to bear on art science so that systematic research can be conducted on this unique set of knowledge making practices

Ecological Feelings Joshua
Trey Barnett, 2025-03-01 These days earthly coexistence often feels bad As environmental crises amass they cast a shadow over an imagined future and the promises of better or at least predictable days to come In times of climate chaos mass extinction and rampant environmental injustice it is easy to despair But here and there a glimmer of joy or optimism shines forth and reminds us that it is possible even necessary to love and to hope amid the ruins The contributors to this volume grapple with a plurality of interrelated ecological feelings care concern contempt empathy fear grief hope joy numbness optimism possessiveness regret and saudades Informed by a rhetorical perspective the essays collected here reveal what sets our ecological feelings into motion Crucially they also uncover some of the rhetorical practices through which we might collectively feel our way into a more harmonious earthly coexistence

Hemlock A Forest Giant On The Edge Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Hemlock A Forest Giant On The Edge**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Hemlock A Forest Giant On The Edge Introduction

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