earth moved on the remarkable achievements of earthworms

#earthworm benefits #soil health #soil fertility #ecosystem engineers #organic matter decomposition

The often-underestimated earthworm plays a monumental role in shaping our planet's ecosystems. Their remarkable achievements include vital contributions to soil health, aeration, and nutrient cycling, literally moving the earth to create fertile environments essential for plant growth and overall ecosystem vitality.

Students can use these lecture notes to reinforce classroom learning or self-study.

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The Earth Moved

"You know a book is good when you actually welcome one of those howling days of wind and sleet that makes going out next to impossible." —The New York Times In The Earth Moved, Amy Stewart takes us on a journey through the underground world and introduces us to one of its most amazing denizens. The earthworm may be small, spineless, and blind, but its impact on the ecosystem is profound. It ploughs the soil, fights plant diseases, cleans up pollution, and turns ordinary dirt into fertile land. Who knew? In her witty, offbeat style, Stewart shows that much depends on the actions of the lowly worm. Charles Darwin devoted his last years to the meticulous study of these creatures, praising their remarkable abilities. With the august scientist as her inspiration, Stewart investigates the worm's subterranean realm, talks to oligochaetologists—the unsung heroes of earthworm science—who have devoted their lives to unearthing the complex life beneath our feet, and observes the thousands of worms in her own garden. From the legendary giant Australian worm that stretches to ten feet in length to the modest nightcrawler that wormed its way into the heart of Darwin's last book to the energetic red wigglers in Stewart's compost bin, The Earth Moved gives worms their due and exposes their hidden and extraordinary universe. This book is for all of us who appreciate Mother Nature's creatures, no matter how humble.

Earth Moved

Shakespeare and Ecology is the first book to explore the topical contexts that shaped the environmental knowledge and politics of Shakespeare and his audiences. Early modern England experienced unprecedented environmental challenges including climate change, population growth, resource shortfalls, and habitat destruction which anticipate today's globally magnified crises. Shakespeare wove these events into the poetic textures and embodied action of his drama, contributing to the formation of a public ecological consciousness, while opening creative pathways for re-imagining future human relationships with the natural world and non-human life. This book begins with an overview of ecological modernity across Shakespeare's work before focusing on three major environmental

controversies in particular plays: deforestation in The Merry Wives of Windsor and The Tempest; profit-driven agriculture in As You Like It; and gunpowder warfare and remedial cultivation in Henry IV Parts One and Two, Henry V, and Macbeth. A fourth chapter examines the interdependency of local and global eco-relations in Cymbeline, and the final chapter explores Darwinian micro-ecologies in Hamlet and Antony and Cleopatra. An epilogue suggests that Shakespeare's greatest potential for mobilizing modern ecological ideas and practices lies in contemporary performance. Shakespeare and Ecology illuminates the historical antecedents of modern ecological knowledge and activism, and explores Shakespeare's capacity for generating imaginative and performative responses to today's environmental challenges.

Shakespeare and Ecology

Spiritual lessons from insect archetypes of the Medicine Wheel • Reveals the sacred wisdom inherent in Honeybee's pollinating, Butterfly's transformation, Spider's weaving, and Earthworm's recycling Provides experiential practices, such as Shamanic Breathwork journeys, to connect with insect teachers and harness their consciousness-activating patterns • Shows how Dragonfly, Cicada, and Cricket connect us with the Great Star Nations, the depths of Mother Earth, and the music of life • Includes access to Cricket Chorus Meditation audio tracks Our insect brothers and sisters are some of the most ancient beings and teachers on planet Earth. Their powerful skills of adaptation and their plight, such as the widespread colony collapse facing honeybees, have brought them to the forefront of collective consciousness, as every being on Earth faces a time of incredible transformation. The archetypal energies of these sacred Wisdomkeepers can guide us through this evolutionary time with new pathways of shamanic healing and transformation to realize the highest potential of humanity. Exploring the insect and arachnid archetypes of the Sacred Instar Medicine Wheel, authors Linda Star Wolf and Anna Cariad-Barrett reveal the consciousness-activating patterns in the pollen flight of Honeybee, the transformative chrysalis of Butterfly, the creative weavings of Spider, and the alchemical recycling of old into new of Earthworm. They show how Dragonfly, Cicada, and Cricket connect us with the Great Star Nations, the depths of Mother Earth, and the music of life, as demonstrated on the accompanying audio tracks. Each chapter includes experiential practices, such as Shamanic Breathwork journeys, to help you embody the strengths of these humble teachers, live within the natural cycles of planet Earth, and discover a higher octave of sacred purpose.

Sacred Medicine of Bee, Butterfly, Earthworm, and Spider

When you think of smart animals, what comes to mind? Wise old owls? Problem-solving dolphins? Maybe you have heard of Koko the gorilla, who has mastered one thousand signs in American Sign Language, or Chaser the border collie, who recognizes one thousand names for her stuffed toys. But what about ants building megacolonies or bees reporting to the hive about new nesting sites? What about escape artist octopuses and jellyfish that use their eyes (they have twenty-four!) to navigate? Are insects, spiders, and other animals without backbones considered smart, too? When we think of intelligent creatures, we often think of vertebrates, or animals with spinal columns and relatively large brains. We don't usually think of invertebrates, or animals without a spine. But invertebrates can be astonishingly intelligent. These animals exhibit surprising feats of learning, memory, and problem-solving using their relatively simple, tiny brains—some the size of a sesame seed or even smaller. In fact, some intelligent invertebrates have no brain at all! Scientists around the world are putting invertebrate intelligence to use in mind-boggling ways. Engineers are designing swarmbots based on bees to take part in search-and-rescue efforts. And materials scientists are basing a new, tough ceramic on the structure of a mantis shrimp's claw. In Smart and Spineless, readers will be challenged to think in a whole new way about what it means to be smart!

Smart and Spineless

How to grow delicious produce in your own backyard In this guide, expert botanist Ginny Stibolt and Master Gardener Melissa Markham provide simple and accessible advice for successful vegetable gardening in Florida, where soil types vary and cool-weather crops are grown right through the mild winters. They offer advice on what to do with over-abundant harvests, strategies for developing a community garden, and suggestions for opportunities beyond the home garden. They also address integrated pest management, appropriate raised bed types, irrigation, seed saving, just-in-time harvesting, and food safety. This second edition is updated with the latest scientific knowledge and growing techniques; new crops for growers to try; more detail in the growing calendars separated by north, central, and south

Florida regions; and color photos and illustrations throughout the text. Readers will appreciate this reliable resource that will help them and their families become more resilient by controlling some of their food from seed to table.

Organic Methods for Vegetable Gardening in Florida

Can you manage the landscape of a golf course, city park, or corporate campus without synthetic fertilizers and toxic pesticides? Absolutely! Organic landscaping is not only possible on a large scale, but it also makes sense both economically and environmentally. It promotes healthy soils and plants, which require less water and sequester more carbon—a winning combination for both your bottom line and the planet's fight against resource depletion and global warming. Organic programs on a commercial scale have enormous potential to make a difference in the quality of our environment, our use of fuels, and our climate. And as those who have already converted to organics have discovered, they also cost a lot less over the long term. Organic Management for the Professional is the first comprehensive guide to "going green" in large-scale landscaping. Nationally recognized organic gardening expert Howard Garrett, with associates John Ferguson and Mike Amaranthus, not only explains in detail how to manage projects with natural organic techniques, but also presents the material in clear, simple terms so that commercial and institutional property owners can understand what to ask of their landscape architects, contractors, growers, and maintenance people. They give detailed, proven instructions for the key components of organic landscaping—soil building, correct planting techniques, fertilizing, pest control, compost, and mulch. Then they show how to apply these organic methods in large-scale landscaping, commercial growing (orchards, tree farms, nurseries, and greenhouse operations), and recreational properties (golf courses, parks, and sports fields).

Organic Management for the Professional

In the fifth installment of Amy Stewart's clever and original Kopp Sisters series, the sisters learn some military discipline--whether they're ready or not--as the U.S. prepares to enter World War I. It's the spring of 1917 and change is in the air. American women have done something remarkable: they've banded together to create military-style training camps for women who want to serve. These so-called National Service Schools prove irresistible to the Kopp sisters, who leave their farm in New Jersey to join up. When an accident befalls the matron, Constance reluctantly agrees to oversee the camp--much to the alarm of the Kopps' tent-mate, the real-life Beulah Binford, who is seeking refuge from her own scandalous past under the cover of a false identity. Will she be denied a second chance? And after notoriety, can a woman's life ever be her own again? InKopp Sisters on the March, the women of Camp Chevy Chase face down the skepticism of the War Department, the double standards of a scornful public, and the very real perils of war. Once again, Amy Stewart has brilliantly brought a little-known moment in history to light with her fearless and funny Kopp sisters novels.

Kopp Sisters on the March

In this darkly comical look at the sinister side of our relationship with the natural world, Stewart has tracked down over one hundred of our worst entomological foes—creatures that infest, infect, and generally wreak havoc on human affairs. From the world's most painful hornet, to the flies that transmit deadly diseases, to millipedes that stop traffic, to the "bookworms" that devour libraries, to the Japanese beetles munching on your roses, Wicked Bugs delves into the extraordinary powers of six-and eight-legged creatures. With wit, style, and exacting research, Stewart has uncovered the most terrifying and titillating stories of bugs gone wild. It's an A to Z of insect enemies, interspersed with sections that explore bugs with kinky sex lives ("She's Just Not That Into You"), creatures lurking in the cupboard ("Fear No Weevil"), insects eating your tomatoes ("Gardener's Dirty Dozen"), and phobias that feed our (sometimes) irrational responses to bugs ("Have No Fear"). Intricate and strangely beautiful etchings and drawings by Briony Morrow-Cribbs capture diabolical bugs of all shapes and sizes in this mixture of history, science, murder, and intrigue that begins—but doesn't end—in your own backyard.

Wicked Bugs

Could there ever be an alternative stock exchange dedicated to slow, small, and local? Could a million American families get their food from CSAs? What if you had to invest 50 percent of your assets within 50 miles of where you live? Such questions-at the heart of slow money-represent the first steps on our path to a new economy. Inquiries into the Nature of Slow Money presents an essential new strategy for investing in local food systems and introduces a group of fiduciary activists who are exploring what

should come after industrial finance and industrial agriculture. Theirs is a vision for investing that puts soil fertility into return-on-investment calculations and serves people and place as much at it serves industry sectors and markets. Leading the charge is Woody Tasch-whose decades of work as a venture capitalist, foundation treasurer, and entrepreneur now shed new light on a truer, more beautiful, more prudent kind of fiduciary responsibility. He offers an alternative vision to the dusty old industrial concepts of the nineteenth and twentieth centuries when dollars, and the businesses they financed, lost their connection to place; slow money, on the other hand, is firmly rooted in the new economic, social, and environmental realities of the 21st century. Inquiries into the Nature of Slow Money is a call to action for designing capital markets built around not extraction and consumption but preservation and restoration. Is it a movement or is it an investment strategy? Yes.

The Garden

For more than three decades, this best-selling guide to the practice of vermicomposting has taught people how to use worms to recycle food waste into nutrient-rich fertilizer for houseplants or gardens. Small-scale, self-contained worm bins can be kept indoors, in a basement, or even under the kitchen sink in an apartment — making vermicomposting a great option for city dwellers and anyone who doesn't want or can't have an outdoor compost pile. The fully revised 35th anniversary edition features the original's same friendly tone, with up-to-date information on the entire process, from building or purchasing a bin (readily available at garden supply stores) to maintaining the worms and harvesting the finished compost.

Inquiries into the Nature of Slow Money

Get the Inside Dirt, Texas! This ultimate local guide to growing vegetables and other edibles provides you with insider advice on climate zones, average frost dates, and growing season details across Texas. Information includes details on sun, soil, fertilizer, mulch, water, and the best varieties for your region. A garden planning section helps with design and crop rotation, and monthly lists explain what to do from January through December. In-depth profiles of nearly 50 edibles round out the information and help ensure a can't-miss harvest.

Worms Eat My Garbage, 35th Anniversary Edition

Includes, beginning Sept. 15, 1954 (and on the 15th of each month, Sept.-May) a special section: School library journal, ISSN 0000-0035, (called Junior libraries, 1954-May 1961). Also issued separately.

Grow Great Vegetables in Texas

Learn how to use natural no-till systems to increase profitability, efficiency, carbon sequestration, and soil health on your small farm. The Organic No-Till Farming Revolution is the comprehensive farmer-developed roadmap showing how no-till lowers barriers to starting a small farm, reduces greenhouse gas emissions, increases efficiency and profitability, and promotes soil health. Farming without tilling has long been a goal of agriculture, yet tilling remains one of the most dominant paradigms; almost everyone does it. But tilling kills beneficial soil life, burns up organic matter, and releases carbon dioxide. If the ground could instead be prepared for planting without tilling, time and energy could be saved, soil organic matter increased, carbon sequestered, and dependence on machinery reduced. This hands-on manual offers: Why roller-crimper no-till methods don't work for most small farms A decision-making framework for the four no-till methods: occultation, solarization, organic mulches grown in place, and applied to beds Ideas for starting a no-till farm or transitioning a working farm A list of tools, supplies, and sources. This is the only manual of its kind, specifically written for natural and small-scale farmers who wish to expand or explore chemical-free, regenerative farming methods.

Library Journal

Award-winning author Amy Stewart takes readers on an around-the-world, behind-the-scenes look at the flower industry and how it has sought—for better or worse—to achieve perfection. She tracks down the hybridizers, geneticists, farmers, and florists working to invent, manufacture, and sell flowers that are bigger, brighter, and sturdier than anything nature can provide. There's a scientist intent on developing the first genetically modified blue rose; an eccentric horitcultural legend who created the most popular lily; a breeder of gerberas of every color imaginable; and an Ecuadorean farmer growing

exquisite roses, the floral equivalent of a Tiffany diamond. And, at every turn she discovers the startling intersection of nature and technology, of sentiment and commerce.

Library Journal

Pre-publication subtitle: A food revolutionary's guide to reversing climate change.

The Organic No-Till Farming Revolution

Every 3rd issue is a quarterly cumulation.

Flower Confidential

Amy Stewart had a simple dream. She yearned for a garden filled with colorful jumbles of vegetables and flowers. After she and her husband finished graduate school, they pulled up their Texas roots and headed west to Santa Cruz, California. With little money in their pockets, they rented a modest seaside bungalow with a small backyard. It wasn't much--a twelve-hundred-square-foot patch of land with a couple of fruit trees, and a lot of dirt. A good place to start. From the Ground Up is Stewart's quirky, humorous chronicle of the blossoms and weeds in her first garden and the lessons she's learned the hard way. From planting seeds her great-grandmother sends to battling snails, gophers, and aphids, Stewart takes us on a tour of four seasons in her coastal garden. Confessing her sins and delighting in small triumphs, she dishes the dirt for both the novice and the experienced gardener. Along the way, she brings her quintessential California beach town to life--complete with harbor seals, monarch butterfly migrations, and an old-fashioned seaside amusement park just down the street. Each chapter includes helpful tips alongside the engaging story of a young woman's determination to create a garden in which the plants struggle to live up to the gardener's vision.

Kiss the Ground

Wilson's Public Library Core Collection: Nonfiction (13th Edition, 2008) recommends reference and nonfiction books for the general adult audience. It is a guide to over 9,000 books (over 6,500 titles are new to this edition), plus review sources and other professional aids for librarians and media specialists. Acquisitions librarians, reference librarians and cataloguers can all use this reliable guide to building and maintaining a well-rounded collection of the most highly recommended reference and nonfiction books for adults. All titles are selected by librarians, editors, advisors, and nominators-all of them experts in public library services. The collection is a valuable tool for collection development and maintenance, reader's advisory, weeding your collection, and curriculum support. Richly enhanced records provide a wealth of useful information. All entries include complete bibliographic data as well as price, subject headings, annotations, grade level, Dewey classification, cover art, and quotations from reviews. Many entries also list awards, best-book lists, and starred reviews. Save Time: Efficiently organised and includes ""Starred"" titles Save Money: Allocate your resources to the best materials available Stay Relevant: Discover the best in important, contemporary categories Complete Coverage: Includes recommendations on periodicals and electronic resources, too Four-Year Subscription This Core Collection was originally sold as a four-year subscription. The core edition, published in 2008, delivers a library-bound volume with an extensive, selective list of recommended books. From 2009 to 2011 Wilson published extensive paperback supplements to the 2008 edition. A new cycle of materials will begin in 2012. However, the 2008 to 2011 materials are currently available. Buyers of them will receive all these materials immediately. All four years are only \$420. Uniquely Valuable There is nothing quite like Wilson Core Collections. The accumulated expertise of our selectors, and the unquestioned reputation of these collections, is invaluable. Wilson Core Collections are universally recognised as impartial and expert aids to collection development that assist and reinforce the judgement of librarians everywhere. Selection to a Wilson Core Collection is strong support to any challenged purchase. Contemporary Relevance This Core Collection includes broad updates in the areas of crafts; terrorism, and international security; environment and global warming; diseases and medicine; and religion, plus other contemporary topics that keep the library's collection as current as today's headlines. Other Key Features Classified Catalogue - A list arranged by Dewey Decimal Classification, with complete cataloguing information for each book. Author, Title, Subject and Analytical Index - An in-depth key to the information in Classified Catalogue-including author and title analytics for works contained in anthologies and collections. Richly enhanced records provide complete bibliographic data, price, subject headings, descriptive annotations, grade level, Dewey classification, evaluative quotations from a review, when available. Listing works published in the United States, or published in Canada or

the United Kingdom and distributed in the United States, Public Library Core Collection: Nonfiction features extensive revisions in the areas of health, science and technology, personal finance, sports, cooking and gardening, and handicrafts. Biography, poetry and literary criticism continue to receive comprehensive treatment. Reference works in all subject fields are included.

Bird Watcher's Digest

'I thought I knew quite a bit about earthworms – until I picked up this charming little book' Nick Baker 'Many wonderful wormy tales unearthed by Coulthard' BBC Countryfile Magazine 'A gem of a book' Country Smallholding Without these little engineers of the earth, the world's soils would be barren, and our gardens and fields wouldn't be able to grow the food we need to survive. Worms recycle decaying plants, putting nutrients back into the soil; they provide a food source for wildlife; and their constant burrowing helps heavy rain soak away. Sally Coulthard's fascianting guide offers a wealth of information and practical advice about the world's msot industrious but little understood creature.

Discover

With his customary brilliance, Gould examines the puzzles and paradoxes great and small that build nature's and humanity's diversity and order.

Book Review Index

Features annotations for more than 6,200 works in the main volume (2007), and more than 2,400 new titles in three annual supplements published 2008 through 2010. New coverage of biographies, art, sports, Islam, the Middle East, cultural diversity, and other contemporary topics keeps your library's collection as current as today's headlines.

From the Ground Up

From the New York Times best-selling author of The Drunken Botanist comes an enthralling novel based on the forgotten, true story of one of the US's first female deputy sheriffs. Constance Kopp doesn't quite t the mould. She towers over most men, has no interest in marriage or domestic affairs, and has been isolated from the world since a family secret sent her and her sisters from the city to the country fifteen years before. When a powerful, ruthless factory owner runs down their buggy, a dispute over damages turns into a war of bricks, bullets, and threats as he unleashes his gang on their farm. The sheriff enlists her help, and it turns out that Constance has a knack for outwitting (and disarming) the criminal element, which might just take her back out into the world and onto a new path in life. Through Amy Stewart's exuberant storytelling, Constance Kopp catapults from a forgotten historical anecdote to an unforgettable historical-fiction heroine — an outsized woman not only ahead of her time, but sometimes even ahead of ours. PRAISE FOR AMY STEWART 'A tongue-in-cheek fable of feminist empowerment ... Often funny, and always likeable, Girl Waits With Gun is as offbeat and original as its heroine.' The Sunday Times '[Constance Kopp] is a likeable heroine in a breezy romp, which is thrilling and amusing in equal measure.' The Sunday Herald Sun

OP Magazine

Leonardo da Vinci once mused that "we know more about the movement of celestial bodies than about the soil underfoot," an observation that is as apt today as it was five hundred years ago. The biological world under our toes is often unexplored and unappreciated, yet it teems with life. In one square meter of earth, there lives trillions of bacteria, millions of nematodes, hundreds of thousands of mites, thousands of insects and worms, and hundreds of snails and slugs. But because of their location and size, many of these creatures are as unfamiliar and bizarre to us as anything found at the bottom of the ocean. Lavishly illustrated with nearly three hundred color illustrations and masterfully-rendered black and white drawings throughout, Life in the Soil invites naturalists and gardeners alike to dig in and discover the diverse community of creatures living in the dirt below us. Biologist and acclaimed natural history artist James B. Nardibegins with an introduction to soil ecosystems, revealing the unseen labors of underground organisms maintaining the rich fertility of the earth as they recycle nutrients between the living and mineral worlds. He then introduces readers to a dazzling array of creatures: wolf spiders with glowing red eyes, snails with 120 rows of teeth, and 10,000-year-old fungi, among others. Organized by taxon, Life in the Soil covers everything from slime molds and roundworms to woodlice and dung beetles, as well as vertebrates from salamanders to shrews. The book ultimately

explores the crucial role of soil ecosystems in conserving the worlds above and below ground. A unique and illustrative introduction to the many unheralded creatures that inhabit our soils and shape our environment aboveground, Life in the Soil will inform and enrich the naturalist in all of us.

Public Library Core Collection

From the often Caldecott-buzzed Deborah Freedman, a sweet and funny story about finding your place in the world. Carl is an earthworm. He spends his days happily tunneling in the soil until a field mouse asks him a simple question that stops him short: "Why?" Carl's quest takes him on an adventure to meet all the animals of the forest, each of whom seems to know exactly what they were put on this earth to do, unlike the curious Carl. But it's not until the world around him has changed that Carl begins to realize everyone, no matter how small, makes a big difference just by being themselves.

Small Farm Today

The history of human waste. How I learned to love the excrement; The early history of human excreta; Treasure nigh soil as if it were gold!; The water closet dilemma and the sewage farm paradigm; Germs, fertilizer, and the poop police -- The present: a sludge revolution in progress. The great sewage time bomb and the redistribution of nutrients on the planet; Loowatt, a loo that turns waste into watts; The crap that cooks your dinner and container-based sanitation; HomeBiogas: your personal digester in a box; Made in New York; Lystek, the home of sewage smoothies; How DC water makes biosolids BLOOM; From biosolids to biofuels -- The future of medicine and other things; Poop: the best (and cheapest medicine; Looking where the sun doesn't shine; From the kindness of one's gut: an insider look into stool banks -- Afterword: breathing poetry into poop.

The Book of the Earthworm

Squirrel teaches Little Groundhog how to plant and tend a vegetable garden.

Leonardo's Mountain of Clams and the Diet of Worms

The soil of the earth is in a terrible state, but steps can be taken to provide a hope for better farming, better crops, and better livestock. George Oliver spent over forty years studying the effect of earthworms on the soil. These magnificent creatures have been with us since the dawn of time, and the impact they have on all life is truly astounding. Whether you are interested in agriculture, poultry farming or fishing, this book is an excellent resource. Drawing on a lifetime of study, Dr. Oliver does a commendable job of backing up all his information with thoroughly researched facts and figures. This classic text, first published in 1941, has been re-edited for the modern reader. Contents Part 1 Introduction Lesson 1: History of the Earthworm Lesson 2: The Habits of the Earthworm Lesson 3: Habits of the Newly Developed Earthworm Lesson 4: Potential Markets for Earthworms Part 2 Introduction Lesson 1: What is Food? Lesson 2: The Life Germ and Better Poultry Lesson 3: Economical Poultry Housing Lesson 4: The Interior of the Economical Hennery Lesson 5: Intensive Range Lesson 6: Putting the Bluebottle Fly to Work Part 3 Introduction Lesson 1: Natural and Man-made Enemies of the Earthworm Lesson 2: The Trout Farmer's Problem Lesson 3: Feeding Problem of the Frog Farmer Lesson 4: Housing the Earthworm Stock Lesson 5: General Care and Feeding of Earthworms Summary Conclusion Appendices My Grandfather's Earthworm Farm Introduction to Harvesting the Earthworm On Earthworms Review "This book by George Oliver returns the reader to a time and methodology where people took responsibility for what they did and what they produced. In this world of spiraling food prices, huge landfills, diminishing food supplies, loss of topsoil, and water pollution, the reader is gently chastised for "letting someone else do it" and being "just too busy." We were once a self-reliant nation; now we outsource. Oliver shows the reader what is wrong and where it is. You would be well advised to read the book over and over until you recognize the problems in our living world and how things can be turned around."

School Library Journal

Senior High Core Collection