

(1998). Since 1998 active in tree care and mycology in Luxembourg. Claus Mattheck, born 1947, doctorate in theoretical physics (1973), qualified as lecturer on damage studies at Karlsruhe University (1985), and now teaches there as Professor. Since 1991 he has been an officially appointed and attested expert on tree mechanics and fracture behaviour. Has been awarded numerous prizes for research and publication. Head of the Biomechanics Department at the Karlsruhe Research Centre.

The Book of Fungi Peter Roberts 2014-06-30 The fifth order of the natural kingdom is made up of an estimated 1.5 million species of fungi, found in every habitat type worldwide. The Book of Fungi takes 600 of the most remarkable fleshy fungi from around the world and reproduces each at its actual size, in full colour, and accompanied by a scientific explanation of its distribution, habitat, association, abundance, growth form, spore colour and edibility. Location maps give at-a-glance indications of each species known global distribution, and specially commissioned engravings show different fruitbody forms and provide the vital statistics of height and diameter. There's a place, too, for readers to discover the more bizarre habits of fungi from the predator that hunts its prey with lassos to the one that entices sows by releasing the pheromones of a wild boar. Mushrooms, morels, puffballs, toadstools, truffles, chanterelles fungi from habitats spanning the poles and the tropics, from the highest mountains to our own gardens are all on display in this definitive work.

Fantastic Fungi Paul Stamets 2020-04-14 2020 IBPA Awards Winner! "Louie Schwartzberg's lightly informative, delightfully kooky documentary, "Fantastic Fungi," offers nothing less than a model for planetary survival." -Jeannette Catsoulis, The New York Times "Gorgeous photography! Time-lapse sequences of mushrooms blossoming forth could pass for studies of exotic flowers growing on another planet." -Joe Morgenstern, The Wall Street Journal The Life-Affirming, Mind-Bending Companion Book to the Smash Hit Documentary FANTASTIC FUNGI Viewed in over 100 countries and selling hundreds of thousands of tickets on the way to finishing 2019 with a rare 100% Tomato meter rating on Rotten Tomatoes, Schwartzberg's documentary Fantastic Fungi has brought the mycological revolution to the world stage. This is the film's official companion book, that expands on the documentary's message: that mushrooms and fungi will change your life- and save the planet. Paul Stamets, the world's preeminent mushroom and fungi expert is joined by leading ecologists, doctors, and explorers such as Michael Pollan, Dr. Andrew Weil, Eugenia Bone, Fantastic Fungi director Louie Schwartzberg, and many more. Together these luminaries show how fungi and mushrooms can restore the planet's ecosystems, repair our physical health, and renew humanity's symbiotic relationship with nature. Join the Movement: Learn about the groundbreaking research that shows why mushrooms stand to provide a solution to environmental challenges, a viable alternative to traditional medicine, and a chance to radically shift consciousness. Most Comprehensive Fungi book in the world: Admire the astounding, underappreciated beauty with over 400 gloriously-shot photographs of the mycelial world's most rare and beautiful species in their natural environment. World's Leading Fungi Experts: Edited by preeminent mycologist Paul Stamets, who contributes original pieces, Fungi includes

original contributions by bestselling author and activist Michael Pollan, alternative medicine expert Dr. Andrew Weil, award-winning nature and food writer Eugenia Bone, Fantastic Fungi director Louie Schwartzberg, and so many more. The book's roster of experts make this the most comprehensive survey of the diverse benefits and extraordinary potential of these amazing organisms.

An Introduction to Fungi H. C. Dube 1983-05-01

Text-book of Fungi George Massee 1906

Fundamentals of Soil Ecology David C. Coleman 2004-08-11 This fully revised and expanded edition of Fundamentals of Soil Ecology continues its holistic approach to soil biology and ecosystem function. Students and ecosystem researchers will gain a greater understanding of the central roles that soils play in ecosystem development and function. The authors emphasize the increasing importance of soils as the organizing center for all terrestrial ecosystems and provide an overview of theory and practice of soil ecology, both from an ecosystem and evolutionary biology point of view. This volume contains updated and greatly expanded coverage of all belowground biota (roots, microbes and fauna) and methods to identify and determine its distribution and abundance. New chapters are provided on soil biodiversity and its relationship to ecosystem processes, suggested laboratory and field methods to measure biota and their activities in ecosystems.. Contains over 60% new material and 150 more pages Includes new chapters on soil biodiversity and its relationship to ecosystem function Outlines suggested laboratory and field methods Incorporates new pedagogical features Combines theoretical and practical approaches

Biodiversity of Fungi Mercedes S. Foster 2011-04-28 Biodiversity of Fungi is essential for anyone collecting and/or monitoring any fungi. Fascinating and beautiful, fungi are vital components of nearly all ecosystems and impact human health and our economy in a myriad of ways. Standardized methods for documenting diversity and distribution have been lacking. A wealth of information, especially regarding sampling protocols, compiled by an international team of fungal biologists, make Biodiversity of Fungi an incredible and fundamental resource for the study of organismal biodiversity. Chapters cover everything from what is a fungus, to maintaining and organizing a permanent study collection with associated databases; from protocols for sampling slime molds to insect associated fungi; from fungi growing on and in animals and plants to mushrooms and truffles. The chapters are arranged both ecologically and by sampling method rather than by taxonomic group for ease of use. The information presented here is intended for everyone interested in fungi, anyone who needs tools to study them in nature including naturalists, land managers, ecologists, mycologists, and even citizen scientists and sophisticated amateurs. Covers all groups of fungi - from molds to mushrooms, even slime molds Describes sampling protocols for many groups of fungi Arranged by sampling method and ecology to coincide with users needs Beautifully illustrated to document the range of fungi treated and techniques discussed Natural history data are provided for each group of fungi to enable users to modify suggested protocols to meet their needs