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Way to the Happiness of
Peace Carl Hanser Verlag
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Understanding the elastic properties of polymer melts is necessary for ensuring successful polymer processing and thus producing high-quality plastic parts. This unique book is the first to focus on this important topic.

Starting with the molecular origin of elastic behavior and an explanation of the physical quantities involved, experimental methods and the dependence of elastic behavior on experimental parameters are then presented. Elastic properties of filled and unfilled systems are compared directly, and polymer blends are also

considered. Elastic effects in various applications are included, such as in extrudate swell, internal stresses, and shrink films, to illustrate the importance of this field in the plastics processing industry.

The Shrubs and Woody Vines of Florida DIANE Publishing

The biology and utilization of shrubs ...

Bulletin of the Southern California Academy of Sciences Elsevier

Amorphous condensed matter can exhibit complex motions on time scales which extend up to those relevant for the functioning of biomaterials. The book presents the derivation of a microscopic theory for amorphous matter,

which exhibits the evolution of such complex motions as a new paradigm of strongly interacting particle systems.
Energy Mineral Rehabilitation Inventory and Analysis Oxford University Press on Demand
Alaska Trees and Shrubs has been the definitive work on the woody plants of Alaska for more than three decades. This new, completely revised second edition provides updated information on habitat, as well as detailed descriptions of every tree or shrub species in the state. New distribution maps reflect the latest survey data, while the keys, glossary, and appendix on non-native plants make this the most useful guide to Alaska trees and shrubs ever published.

Alaska Trees and Shrubs University of Alaska Press
Florida ranks third in the U.S. in the number of plants about 4,000 species that cover its landscape. Here at last is an easy-to-use field guide to them all, chock-full of line drawings and color photos. This book will be useful to professional botanists, landscape architects, and homeowners alike.
Wildland Shrubs -- Their Biology and Utilization John Wiley & Sons
The aim of this successful book is to describe and analyse peculiarities of classical and quantum dynamics of a crystal as a spatially periodic structure. In the second revised and updated edition, the author focuses on low-dimensional models of crystals and on

superlattices. Both traditional materials.

questions like the spectrum of vibrations, the idea of phonon gas, dislocations etc. and new aspects like the theory of quantum crystals, solitons in 1D crystals, dislocation theory of melting of 2D crystals etc. are discussed. The author gives an explanation of a set of phenomena which entered into solid state physics during the last decades. It is shown that the crystal properties are sensitive to the dimension of the crystal and its defect structure, and depend slightly on whether the periodic structure consists of atoms, or electrical dipoles, or magnetic moments (spins).

Considerable attention is devoted to the dislocation mechanisms as a basis of the theory of plasticity and numerous technological applications of crystalline

The Fire and Fuels Extension to the Forest Vegetation Simulator

Apress

The Fire and Fuels Extension (FFE) to the Forest Vegetation Simulator (FVS)

simulates fuel dynamics and potential fire behavior over time, in the context of stand development and management. Existing models of fire behavior and fire effects were added to FVS to form this extension. New submodels representing snag and fuel dynamics were created to complete the linkages. This report contains four chapters. Chapter 1 states the purpose and chronicles some applications of the model. Chapter 2 details the model's content,

documents links to the supporting science, and provides annotated examples of the outputs. Chapter 3 is a user's guide that presents options and examples of command usage. Chapter 4 describes how the model was customized for use in different regions. Fuel managers and silviculturists charged with managing fire-prone forests can use the FFEFVS and this document to better understand and display the consequences of alternative management actions.

Standard Fire Behavior Fuel Models Texas Tech University Press

The objective of this study was to provide managers with national-level data on current conditions of

vegetation and fuels developed from ecologically based methods to address these questions: How do current vegetation and fuels differ from those that existed historically? Where on the landscape do vegetation and fuels differ from historical levels? In particular, where are high fuel accumulations? When considered at a coarse scale, which areas estimated to have high fuel accumulations represent the highest priorities for treatment?

Basic Aspects of the Quantum Theory of Solids Manning Publications

The mixed grass and shrub vegetation known to scientists as desert grassland is common to the basins and valleys that skirt the mountain ranges throughout

southwestern North America, extending from Arizona, New Mexico and Texas down through thirteen Mexican states. This variegated ground cover is crucial to life in an arid environment. The Desert Grassland offers the most comprehensive study to date of these flora and the rich biotic communities they support. Leading experts in geography, biology, botany, zoology, and geoscience present new research on the desert grassland and review a vast amount of earlier work. They reveal that present-day grasses once grew in the ice-age forests that existed in these areas before the climate dried and the trees vanished and how the intensity and frequency of fire can influence the plant and animal species of the grassland. They also document how the influence of humans—from Amerindians to contemporary ranchers, public land managers, and real estate developers—has changed the relative abundance of woody and herbaceous species and how the introduction of new plants and domesticated animals to the area has also affected biodiversity. The book concludes with a review of the attempts, both failed and successful, to reestablish plants in desert grasslands affected by overgrazing, drought, and farm abandonment. Meticulously researched and copiously illustrated, *The Desert Grassland* is a

major contribution to ecological literature. For advanced lay readers as well as students and scholars of history, geography, and ecology, it will be a standard reference work for years to come.

Fire and Ecosystems Univ of California Press

A computer simulation model, FARSITE, includes existing fire behavior models for surface, crown, spotting, point-source fire acceleration, and fuel moisture. The model's components and assumptions are documented. Simulations were run for simple conditions that illustrate the effect of individual fire behavior models on two-dimensional fire growth.

Development of Coarse-scale Spatial Data for Wildland Fire and Fuel Management Cambridge University Press

This vol. is the first

published product of the Pennsylvania Flora Database, created & maintained at the Morris Arboretum of the U. of Pennsylvania. The database has its roots in the work of Edgar T. Wherry, John M. Fogg, Jr., & Herbert A. Wahl, the Atlas of the Flora of Pennsylvania (Wherry et al. 1979), published by the Morris Arboretum. Over a period of 40 years, Wherry & his colleagues gathered data from the major Pennsylvania herbaria & manually placed a quarter of a million dots on over 3500 maps (Fogg 1944). The Pennsylvania Flora Database retains the emphasis on specimen-based, site-specific data. The checklist of included taxa has undergone extensive review to reflect recent taxonomic & nomenclatural revisions. Questionable specimens

have been re-evaluated with the result that several taxa included in earlier works were dropped. Recent discoveries have been added & distribution data has been updated. This vol. also includes collections made in the 1990s in conjunction with the Pennsylvania Natural Diversity Inventory (PNDI), the state heritage program. The maps present the accumulated collection of information for each taxon as represented in the herbaria. Illus., reprinted 1996.

Rick Steves Berlin Rick Steves

Aimed at graduate students and researchers, this book covers the key aspects of the modern quantum theory of solids, including up-to-date ideas such as quantum fluctuations and strong electron correlations. It presents in the main

concepts of the modern quantum theory of solids, as well as a general description of the essential theoretical methods required when working with these systems. Diverse topics such as general theory of phase transitions, harmonic and anharmonic lattices, Bose condensation and superfluidity, modern aspects of magnetism including resonating valence bonds, electrons in metals, and strong electron correlations are treated using unifying concepts of order and elementary excitations. The main theoretical tools used to treat these problems are introduced and explained in a simple way, and their applications are demonstrated through concrete examples.

Learn Azure in a Month of Lunches, Second Edition
Pineapple Press Inc

Fire and Ecosystems focuses on a number of aspects of fire ecology. This book deals separately with both harmful and beneficial effects of fire on soils, soil organisms, animals, and plants. This reference material elucidates the effects of fire on grasslands and considers the role of fire in temperate forests and related ecosystems. Four chapters are presented on a regional basis to highlight variations in responses, especially plant succession, to fire. The use of fire in land management is also explored. This book will serve as an invaluable reference material to researchers, teachers, and land managers.

The Biology and Utilization of Shrubs University of Arizona Press

"There is an increasing need for spatial wildland fire analysis in support of

incident management, fuel treatment planning, wildland-urban assessment, and land management plan development. However, little guidance has been provided to the field in the form of training, support, or research examples. This paper provides guidance to fire managers, planners, specialists, and analysts in the use of "models" (FARSITE, FlamMap, RERAP-Term), tools/programs (KCFast, RAWS, FireFamily Plus, WindWizard), and procedures for spatial fire analysis. The approach includes a brief discussion about models and their assumptions and limitations, historical fire and weather analysis, landscape file data acquisition and development, landscape file and model output critique, and model calibration."

The Crystal Lattice John

Wiley & Sons
Common Forest Trees of
Hawaii, first published in
1989 as USDA Forest
Service Agriculture
Handbook 679, is an
illustrated reference for
identifying the common
trees in the forests of
Hawaii. Useful
information about each
species is also compiled,
including Hawaiian,
English, and scientific
names; description;
distribution within the
islands and beyond; uses
of wood and other
products; and additional
notes. The 152 species
described and illustrated
by line drawings comprise
60 native species
(including 53 that are
endemic), 85 species
introduced after the
arrival of Europeans, and
7 species introduced

apparently by the early
Hawaiians. One chapter is
devoted to forests and
forestry in Hawaii. Maps
of the Hawaiian Islands
show the physical
features and place
names, major forest
types, and forest reserves
and conservation districts.
Each tree species is
illustrated by a full-page
line drawing.

Elastic Behavior of Polymer Melts

Managing wildland fire in
the U.S. is a challenge
increasing in complexity
& magnitude. The goals &
actions presented in this
report encourage a
proactive approach to
wildland fire to reduce its
threat. Five major topic
areas on the subject are
addressed: the role of
wildland fire in resource
management; the use of

wildland fire; preparedness & suppression; wildland/urban interface protection; & coordinated program management. Also presented are the guiding principle that are fundamental to wildland fire management & recommendations for fire management policies. Photos, graphs, & references.

D&B Million Dollar Directory

"Invasive nonnative plants threaten native species with habitat loss, displacement, and severe population declines, thus seriously reducing biodiversity. Invasive Plants of California's Wildlands is a tremendous source for land managers and others who are interested

in protecting the rich natural heritage of California and surrounding states."--John C. Sawhill, President and CEO, The Nature Conservancy

Wonders of the World

Guide to the shrubs, trees, and cacti of Southern Texas, with descriptions and colored photographs of each plant.

Federal Wildland Fire Management

Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn Azure in a Month of Lunches, Second Edition gets you up and running quickly, teaching you the most important concepts

and tasks in 21 practical bite-sized lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book *Learn Azure in a Month of Lunches, Second Edition*, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work

through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside
Understanding Azure beyond point-and-click
Securing applications and data
Automating your environment
Azure services for machine learning, containers, and more
About the reader This book is for readers who can write and deploy simple web or client/server applications.
About the author Iain Foulds is an engineer and senior content developer with Microsoft.
Table of Contents
PART 1 - AZURE CORE SERVICES
1 Before you begin
2 Creating a virtual machine
3 Azure Web Apps
4 Introduction to Azure Storage
5 Azure Networking basics
PART 2 - HIGH AVAILABILITY AND SCALE
6 Azure Resource Manager
7 High availability and redundancy
8 Load-balancing applications
9 Applications that scale
10 Global

databases with Cosmos DB 11
Managing network traffic and routing 12
Monitoring and troubleshooting PART 3 - SECURE BY DEFAULT 13
Backup, recovery, and replication 14
Data encryption 15
Securing information with Azure Key Vault 16
Azure Security Center and updates PART 4 - THE COOL STUFF 17
Machine learning and artificial intelligence 18
Azure Automation 19
Azure containers 20
Azure and the Internet of Things 21
Serverless computing