

Harvesting ColorHow to Find Plants and Make Natural DyesArtisan Books

"Harvesting Color' presents the entire process of infusing your life with color--finding the right plants, harvesting them at the best time, transforming the crop into beautiful dye, and, finally, marring pigment to fiber. In this beautiful book, Rebecca Burgess showcases thre dozen common plants that yield striking hues. Citing fascinating botanical lore, she demystifies the process of recognizing each plant in the wild. For those you can grow yourself, she details when to sow the seed and how to nuture the plant. For all the plants, you'll learn the optimal time to harvest, as well as how to extract the best dyes" --Cover flap.

These centers are hands-on, developmentally appropriate, and fun! Students delight in the activities while reinforcing math, reading, and writing skills. Science and social studies connections are also included for each unit.

Protecting the environment should be a priority of every theatrical production, but it can be challenging to mount an environmentally-friendly show with limited time, resources, and information. A Practical Guide to Greener Theatre: Introduce Sustainability Into Your Productions not only gives you the information you need to make greener decisions, but provides you with practical, workable solutions. You will learn how to assess and improve every production area – from costuming and painting, lighting and technical direction, to administrative offices and the rehearsal process. Checklists, examples of successful strategies, and step-by-step instructions will show you how to identify areas where manageable, sustainable changes can make your productions greener, and advice from working professionals, with experience greening their own productions, will leave you confident that your processes are environmentally sound. Even non-technical people who find themselves responsible for supervising productions will find green solutions that can be instituted with a staff of volunteers or students. Remember: every step toward sustainability is a step forward. Discover small fixes that will make your theatre productions greener. Examine ways to introduce greener practices in the design, execution, and strike process. Explore how introducing sustainability into your theatre productions can save your company time and money. Learn how sustainability and safety intersect to help protect your workers and volunteers.

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From personal experience the author offers instructions on growing and drying flowers, comments on choosing and using craft materials, and gives pointers on dried flower arrangements

Cannabis cultivation has come a long way since the 1960's and 70's, yielding bigger, more potent bud today than that of yesteryear, but one thing we've learned in our quest for the best buds is that Mother Nature had it right all along. Whether growing outdoors or in a well-controlled grow room, feeding cannabis with soil is perhaps the best way to yield awesome results with minimum effort.

Morels are prized edible mushrooms that fruit, sometimes prolifically, in many forest types throughout western North America. They are collected for personal consumption and commercially harvested as valuable special (nontimber) forest products. Large gaps remain, however, in our knowledge about their taxonomy, biology, ecology, cultivation, safety, and how to manage forests and harvesting activities to conserve morel populations and ensure sustainable crops. This publication provides forest managers, policymakers, mycologists, and mushroom harvesters with a synthesis of current knowledge regarding these issues, regional summaries of morel harvesting and management, and a comprehensive review of the literature.

Filled with many examples of topic issues and current events, this book develops a basic understanding of how the natural world works and of how humans interact with the planet's natural ecosystems. It covers the history of ecology and describes the general approaches of the scientific method, then takes a look at basic principles of population dynamics and applies them to everyday practical problems.

Offers guidance in planning a year-round horticultural program, with activities organized by month, plus program development and evaluation guidelines and a teacher's guide to gardening skills

Learn how easy pressing and preserving flowers can be and then create spectacular, one-of-a-kind arrangements. More than 40 original designs for gorgeous wreaths, centerpieces, picture frames, and more, all featuring plants that you have dried, will showcase your talent and brighten your home.--COVER.

Authored by cataloging librarians, educators, and information system experts, this book of essays addresses ideas and methods for tackling the modern challenges of cataloging and metadata practices. * Contains essays authored by experienced, passionate, and articulate catalogers, metadata librarians, and other experts * Includes original research survey results on librarians' views regarding current topics such as RDA, AACR2, FRBR, the use of upstream data, and cataloging on the Semantic Web * Contains an introductory timeline and history of cataloging and metadata from ancient to present times * Provides a chronological bibliography of selected works related to cataloging and libraries through 1800 and a more complete bibliography of related works * Includes a foreword and afterword by three internationally known and respected cataloging figures, Michael Gorman, Dr. Sheila S. Intner, and Dr. Susan S. Lazinger

A comprehensive manual for small-scale farmers raising organic crops sustainably on a few acres in every climate zone. Free to download eBook on Practical Solar Tracking Design, Solar Tracking, Sun Tracking, Sun Tracker, Solar Tracker, Follow Sun, Sun Position calculation (Azimuth, Elevation, Zenith), Sun following, Sunrise, Sunset, Moon-phase, Moonrise, Moonset calculators. In harnessing power from the sun through a solar tracker or solar tracking system, renewable energy system developers require automatic solar tracking software and solar position algorithms. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun's passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, solar equinox and winter solstice. Eco Friendly and Environmentally Sustainable Micro Combined Solar Heat and Power (m-CHP, m-CCHP, m-CHCP) with Microgrid Storage and Layered Smartgrid Control towards Supplying Off-Grid Rural Villages in developing BRICS countries such as Africa, India, China and Brazil. Off-grid rural villages and isolated islands areas require mCHP and trigeneration solar

power plants and associated isolated smart microgrid solutions to serve the community energy needs. This article describes the development progress for such a system, also referred to as solar polygeneration. The system includes a sun tracker mechanism wherein a parabolic dish or lenses are guided by a light sensitive mechanism in a way that the solar receiver is always at right angle to the solar radiation. Solar thermal energy is then either converted into electrical energy through a free piston Stirling, or stored in a thermal storage container. The project includes the thermodynamic modeling of the plant in Matlab Simulink as well as the development of an intelligent control approach that includes smart microgrid distribution and optimization. The book includes aspects in the simulation and optimization of stand-alone hybrid renewable energy systems and co-generation in isolated or islanded microgrids. It focusses on the stepwise development of a hybrid solar driven micro combined cooling heating and power (mCCHP) compact trigeneration polygeneration and thermal energy storage (TES) system with intelligent weather prediction, weak-ahead scheduling (time horizon), and look-ahead dispatch on integrated smart microgrid distribution principles. The solar harvesting and solar thermodynamic system includes an automatic sun tracking platform based on a PLC controlled mechatronic sun tracking system that follows the sun progressing across the sky. An intelligent energy management and adaptive learning control optimization approach is proposed for autonomous off-grid remote power applications, both for thermodynamic optimization and smart micro-grid optimization for distributed energy resources (DER). The correct resolution of this load-following multi objective optimization problem is a complex task because of the high number and multi-dimensional variables, the cross-correlation and interdependency between the energy streams as well as the non-linearity in the performance of some of the system components. Exergy-based control approaches for smartgrid topologies are considered in terms of the intelligence behind the safe and reliable operation of a microgrid in an automated system that can manage energy flow in electrical as well as thermal energy systems. The standalone micro-grid solution would be suitable for a rural village, intelligent building, district energy system, campus power, shopping mall centre, isolated network, eco estate or remote island application setting where self-generation and decentralized energy system concepts play a role. Discrete digital simulation models for the thermodynamic and active demand side management systems with digital smartgrid control unit to optimize the system energy management is currently under development. Parametric simulation models for this trigeneration system (polygeneration, poligeneration, quadgeneration) are developed on the Matlab Simulink and TrnSys platforms. In terms of model predictive coding strategies, the automation controller will perform multi-objective cost optimization for energy management on a microgrid level by managing the generation and storage of electrical, heat and cooling energies in layers. Each layer has its own set of smart microgrid priorities associated with user demand side cycle predictions. Mixed Integer Linear Programming and Neural network algorithms are being modeled to perform Multi Objective Control optimization as potential optimization and adaptive learning techniques.

This unique tutorial textbook offers beginners and experts the information to start or enhance an oculofacial surgery practice. Whether your background is Ophthalmology, ENT, Plastic Surgery or Dermatology, you will appreciate the "over the shoulder" approach to teaching as Dr. Nerad gives you the basics and the secrets of years of practice in the field. Covering everything from foundational concepts to state-of-the-art advances, this book contains over 500 illustrations and photos, superbly illustrating a step-by-step outline to today's oculoplastic surgical techniques, teaching diagnostic and procedural aspects of practice. The long-anticipated 2nd Edition of *Techniques in Ophthalmic Plastic Surgery: A Personal Tutorial* is a "must read" for any surgeon interested in the field. Reflects current practice with significant updates throughout, including both cosmetic and functional procedures to improve "how you see and how you look." The latest aesthetic eyelid and facelift procedures and new filler and botulinum toxin techniques are presented. Functional procedures that are aimed at restoring vision are equally well described with clinical photographs and helpful diagrams. Outlines important anatomy and diagnostic tips in addition to step-by-step procedural guidance. Provides clear visual guidance with an outstanding combination of high-quality artwork, clear surgical photos, and online access to over 50 videos that depict select techniques and procedures. Features checkpoint boxes and major point reviews in each chapter for self-assessment and as a quick reminder of critical points. Includes comprehensive reference lists for further study. Offers a unique, tutorial "one on one" teaching style. You will find the friendly conversational tone of the book unintimidating, and extremely useful for you to learn the most frequently performed oculoplastic surgical procedures.

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