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The process of growing mushrooms is a mystery to most people. Although

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there are a few "how to grow mushrooms" tutorials around, many of them skip out on a lot of steps and make it seem way easier than it actually is. This is a book that is going to give you basic knowledge about the fascinating subject of growing mushrooms. It is a broad subject with

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many different aspects to it. Some of them are complicated, and some of them are really simple. The wonderful thing is that the whole process of growing mushrooms is scalable. You can choose for yourself what level you want to achieve.

This open access book on straw

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management aims to provide a wide array of options for rice straw management that are potentially more sustainable, environmental, and profitable compared to current practice. The book is authored by expert researchers, engineers and innovators working on a range of straw

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management options with case studies from Vietnam, the Philippines and Cambodia. The book is written for engineers and researchers in order to provide them information on current good practice and the gaps and constraints that require further research and innovation. The book is

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also aimed at extension workers and farmers to help them decide on the best alternative straw management options in their area by presenting both the technological options as well as the value chains and business models required to make them work. The book will also be useful for policy

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makers, required by public opinion to reduce greenhouse gas emissions and air pollution, looking for research-based evidence to guide the policies they develop and implement.

What would it take to grow mushrooms in space? How can mushroom cultivation help us manage, or at least

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make use of, invasive species such as kudzu and water hyacinth and thereby reduce dependence on herbicides? Is it possible to develop a low-cost and easy-to-implement mushroom-growing kit that would provide high-quality edible protein and bioremediation in the wake of a natural disaster? How

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can we advance our understanding of morel cultivation so that growers stand a better chance of success? For more than twenty years, mycology expert Tradd Cotter has been pondering these questions and conducting trials in search of the answers. In Organic Mushroom Farming and

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Mycoremediation, Cotter not only offers readers an in-depth exploration of best organic mushroom cultivation practices; he shares the results of his groundbreaking research and offers myriad ways to apply your cultivation skills and further incorporate mushrooms into your life—whether

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your goal is to help your community clean up industrial pollution or simply to settle down at the end of the day with a cold Reishi-infused homebrew ale. The book first guides readers through an in-depth exploration of indoor and outdoor cultivation.

Covered skills range from integrating

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wood-chip beds spawned with king stropharia into your garden and building a “trenched raft” of hardwood logs plugged with shiitake spawn to producing oysters indoors on spent coffee grounds in a 4x4 space or on pasteurized sawdust in vertical plastic columns. For those who aspire to the

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self-sufficiency gained by generating and expanding spawn rather than purchasing it, Cotter offers in-depth coverage of lab techniques, including low-cost alternatives that make use of existing infrastructure and materials. Cotter also reports his groundbreaking research cultivating morels both

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indoors and out, “training” mycelium to respond to specific contaminants, and perpetuating spawn on cardboard without the use of electricity. Readers will discover information on making tinctures, powders, and mushroom-infused honey; making an antibacterial mushroom cutting board; and growing

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mushrooms on your old denim jeans. Geared toward readers who want to grow mushrooms without the use of pesticides, Cotter takes “organic” one step further by introducing an entirely new way of thinking—one that looks at the potential to grow mushrooms on just about anything, just about

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anywhere, and by anyone.

Mushroom Biotechnology:
Developments and Applications is a
comprehensive book to provide a
better understanding of the main
interactions between biological,
chemical and physical factors directly
involved in biotechnological

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procedures of using mushrooms as bioremediation tools, high nutritive food sources, and as biological helpers in healing serious diseases of the human body. The book points out the latest research results and original approaches to the use of edible and medicinal mushrooms as efficient bio-

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instruments to reduce the environment and food crises. This is a valuable scientific resource to any researcher, professional, and student interested in the fields of mushroom biotechnology, bioengineering, bioremediation, biochemistry, eco-toxicology, environmental engineering, food

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engineering, mycology, pharmacists,
and more. Includes both theoretical
and practical tools to apply mushroom
biotechnology to further research and
improve value added products

Presents innovative biotechnological
procedures applied for growing and
developing many species of edible and

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medicinal mushrooms by using high-tech devices Reveals the newest applications of mushroom biotechnology to produce organic food and therapeutic products, to biologically control the pathogens of agricultural crops, and to remove or mitigate the harmful consequences of

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quantitative expansion and qualitative
diversification of hazardous

contaminants in natural environment

Manual on Mushroom Cultivation

Mushroom Cultivation in India

Current Knowledge and Future

Prospects

Make Money by Growing Mushrooms

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Edible Ectomycorrhizal Mushrooms
Technology and Applications

***Mushrooms are the health
food of the world. These
are that fast growing
basidiomycetous fungi
which produce fleshy***

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fruit bodies. They are rich in proteins, vitamins and minerals, so they are consumed as energy rich food. Mushroom has been attracting attention of

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mankind since ancient times and use of mushroom, as food is as old as human civilization. Mushrooms are superior to many vegetables and beans in

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***their nutritive value.
It is very rich in
protein, vitamins and
minerals. Fresh
mushrooms contain about
85% water and 3.2%
protein. But dried***

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mushrooms water content is low and protein level is high as 34 to 44% and the fat content is less than 0.3%. There are about 100 species of edible mushrooms all

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over the world. But only three of them are cultivated in India which are Agaricus bisporus, Volvariella volvacea and pleurotus sajor caju.

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Unfortunately, it is realized that mushrooms did not receive universal acceptance over the years since a number of naturally growing mushrooms are

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poisonous. Now the situation has been changed because the cultivated edible mushrooms are totally safe for human consumption. Mushroom

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cultivation fits in very well with sustainable farming and has several advantages: it uses agricultural waste products, a high production per surface

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***area can be obtained,
after picking; the spent
substrate is still a
good soil conditioner.
They have less
carbohydrate so they are
believed to be suitable***

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***for diabetic patients.
Fresh mushrooms have
very limited life and
hence they need to be
consumed within few
hours. But processing
and canning increases***

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their shelf life to few months. Osmotic dehydration is one of the important methods of processing mushroom which involves drying technology of mushroom.

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Mushrooms are very popular in most of the developed countries and they are becoming popular in many developing countries like India. Applications

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and market for mushrooms is growing rapidly in India because of their nice aroma, nutritious values, subtle flavour and many special tastes. Mushroom cultivation has

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been declared as a major thrust area by Government of India. Mushroom dish is a common item in all the big hotels. Mushroom production has increased

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many folds during the recent past. Mushrooms have found a definite place in the food consumption habits of common masses and there is a constant demand for

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***it throughout the year.
Some of the fundamentals
of the book are
nutritive value of
edible mushrooms,
medicinal value of
mushrooms, advantages of***

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***mushrooms, symptoms of
mushroom poisoning,
morphology of common
edible mushrooms,
classification of fungi
a brief survey, chemical
composition, anti***

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***nutritional factors and
shelf life of oyster
mushroom , osmotic
dehydration
characteristics of
button mushrooms,
mushroom cultivation,***

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***cultivation of white
button mushroom
(agaricus bisporus),
actors determining the
amount of spawn needed,
fungicides for mushroom
diseases insecticides for***

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mushroom pets etc. The present book contains cultivation, processing, dehydration, preservation and canning of various species of mushrooms. It is

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***resourceful book for
agriculturists,
researchers, agriculture
universities,
consultants etc.***

***Mycelium Running is a
manual for the***

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***mycological rescue of
the planet. That's
right: growing more
mushrooms may be the
best thing we can do to
save the environment,
and in this***

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***groundbreaking text from
mushroom expert Paul
Stamets, you'll find out
how. The basic science
goes like this:
Microscopic cells called
"mycelium"--the fruit of***

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***which are
mushrooms--recycle
carbon, nitrogen, and
other essential elements
as they break down plant
and animal debris in the
creation of rich new***

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soil. What Stamets has discovered is that we can capitalize on mycelium's digestive power and target it to decompose toxic wastes and pollutants

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***(mycoremediation), catch
and reduce silt from
streambeds and pathogens
from agricultural
watersheds
(mycofiltration),
control insect***

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populations

***(mycopesticides), and
generally enhance the
health of our forests
and gardens***

***(mycoforestry and myco-
gardening). In this***

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*comprehensive guide,
you'll find chapters
detailing each of these
four exciting branches
of what Stamets has
coined
"mycorestoration," as*

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well as chapters on the medicinal and nutritional properties of mushrooms, inoculation methods, log and stump culture, and species selection for

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***various environmental
purposes. Heavily
referenced and
beautifully illustrated,
this book is destined to
be a classic reference
for bemushroomed***

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***generations to come.
Comprehensive and
timely, Edible and
Medicinal Mushrooms:
Technology and
Applications provides
the most up to date***

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***information on the
various edible mushrooms
on the market. Compiling
knowledge on their
production, application
and nutritional effects,
chapters are dedicated***

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***to the cultivation of
major species such as
Agaricus bisporus,
Pleurotus ostreatus,
Agaricus subrufescens,
Lentinula edodes,
Ganoderma lucidum and***

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***others. With
contributions from top
researchers from around
the world, topics
covered include:
Biodiversity and
biotechnological***

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***applications Cultivation
technologies Control of
pests and diseases
Current market overview
Bioactive mechanisms of
mushrooms Medicinal and
nutritional properties***

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***Extensively illustrated
with over 200 images,
this is the perfect
resource for researchers
and professionals in the
mushroom industry, food
scientists and***

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***nutritionists, as well
as academics and
students of biology,
agronomy, nutrition and
medicine.***

***A detailed and
comprehensive guide for***

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***growing and using
gourmet and medicinal
mushrooms commercially
or at home. "Absolutely
the best book in the
world on how to grow
diverse and delicious***

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***mushrooms.”—David Arora,
author of Mushrooms
Demystified With precise
growth parameters for
thirty-one mushroom
species, this bible of
mushroom cultivation***

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***includes gardening tips,
state-of-the-art
production techniques,
realistic advice for
laboratory and growing
room construction, tasty
mushroom recipes, and an***

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***invaluable
troubleshooting guide.
More than 500
photographs,
illustrations, and
charts clearly identify
each stage of***

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*cultivation, and a
twenty-four-page color
insert spotlights the
intense beauty of
various mushroom
species. Whether you're
an ecologist, a chef, a*

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***forager, a
pharmacologist, a
commercial grower, or a
home gardener—this
indispensable handbook
will get you started,
help your garden***

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***succeed, and make your
mycological landscapes
the envy of the
neighborhood.***

Tropical Mushrooms

Rapport Et Documents

Présentés À L'atelier de

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***la FAO Sur la
Technologie,
L'utilisation Et
L'assurance de Qualité
Du Poisson
Sericulture Training
Manual***

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***Simple to Advanced and
Experimental Techniques
for Indoor and Outdoor
Cultivation
Growing Gourmet and
Medicinal Mushrooms
The Cultivation of***

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Mushrooms

With reference to India.

Edible ectomycorrhizal mushrooms (EEMMs) comprise more than 1000 species and are an important food and forest resource. In this volume of Soil Biology, internationally recognized

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scientists offer their most recent research findings on these beguiling fungi. Topics covered include: complex ecological interactions between plants, EEMMs, and soil organisms; comparative genomics, high-throughput sequencing and modern

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research tools; genetic selection of fungal strains and techniques for inoculating plants; economic and social considerations surrounding wild collected EEMMs; and practical information concerning soil management and EEMM cultivation.

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The book will be a useful guide for anyone interested in soil ecology, forestry, or the genetics and cultivation of EEMMs, and provides an extensive knowledge base and inspirations for future studies on these ecologically and economically important fungi.

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The Workshop was held to review progress and problems in post-harvest fish utilization in Africa and formulate recommendations to FAO, its member countries and all institutes, institutions and persons interested in fish utilization in Africa. The experts reviewed in

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particular fresh fish utilization, fish processing, quality assurance, and marketing and socio-economic issues. The review was done through presentation by the secretariat of a report on progress and events since the Consultation in Fish Technology held

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in 2001, presentation of 26 papers, abstracts of two additional papers, and a field trip to the Mbegani Fisheries Development Centre, a fish market and a processing unit in Dar es Salaam. The report includes the recommendations as well as the papers

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that were available to the experts. -

L'atelier a ete organise pour passer en revue les progres et problemes dans l'utilisation du poisson apres capture en Afrique, et formuler des recommandations a la FAO, a ses pays membres et a tous les instituts,

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institutions et personnes intéressées par l'utilisation du poisson en Afrique. Les experts ont examiné notamment l'utilisation du poisson frais, la transformation du poisson, l'assurance de qualité, la commercialisation et les questions socioéconomiques. Cet

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examen s'est effectue a travers la presentation, par le secretariat, du rapport sur les progres et evenements depuis la Consultation d'experts FAO sur la technologie du poisson en Afrique qui s'est tenue en 2001, des presentations de 26 communications,

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des resumes de deux contributions supplementaires, et une visite de terrain au Mbegani Fisheries Development Centre, au marche au poisson et dans une unite de transformation de poisson a Dar es Salaam. Le rapport inclut les recommandations de meme que les

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communications qui etaient a la disposition des experts."

It is generally realized that there is an acute shortage of literature on mushroom cultivation based on the requirements of the growers in our country. Therefore the present book

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has been written keeping those factors in view and the book shows a great variety of cheap and useless materials, eg agricultural, industrial and forest waste, that can be successfully used as media for growing the various edible mushrooms. The book emphasizes

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mainly on the applied (cultivation) aspect of edible mushroom and is intended for anyone who is interested in edible mushroom the experience mushroom specialists; seasonal commercial grower or simply layman. The aim or writing this book, is that it

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will encourage and stimulate further research on all aspect of edible mushroom with special attention directed towards discovering new edible species and improving both the quality the yield of existing ones. This would eventually lead to their mass

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production accompanied by reduction in cost, ultimately bringing this commodity within the reach of common man. Contents Chapter 1: Introduction; Chapter 2: Global Status of Mushroom Production; Chapter 3: Importance of Mushroom; Chapter 4:

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History of Mushroom Cultivation in India; Chapter 5: Food Value of Mushrooms; Chapter 6: Steps in Mushroom Growing; Selection of site and types of mushroom to be grown, Mushroom farm structure, design and layout, Principles and techniques of

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compost and composting, Principles and techniques of spawn production, Casing and crop production, Environmental crop management, Harvesting and marketing; Chapter 7: Cultivation Technology of Specialty Mushrooms; Agaricus bitorquis,

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Pleurotus species, Paddy straw mushroom, Calocybe indica, Lentinula edodes, Flammulina velutipes, Agrocybe aegerita, Auricularia species; Chapter 8: Pests and Pathogens of Mushrooms; Chapter 9: Post Harvest Handling and Preservation of

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Mushrooms; Chapter 10: Mushroom
Poisoning.

Mycelium Running

Rural Women Technology Training
Manual

Handbook on Mushrooms

How Mushrooms Can Help Save the

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World

The Blue Economy

In-country TEFL/crossover Tropical
Agricultural Training Manual

The book provides an
insight and detailed
knowledge on the various

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aspects of applied microbiology and biotechnology as is going on in the present research trend. The book discusses on various integral issues related to microbiology

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and biotechnology which will prove to be of immense help to the academicians, scientists, researchers, technocrats and students worldwide. The book is a sincere work

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of compilation of new and recent advances in the topic of concern through various innovative researches and scientific opinion there from. The book is dedicated to the

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readers who will
definitely find it
interesting and
knowledgeable in carrying
out their respective
researches in different
aspects of applied

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microbiology and
biotechnology. Lastly, the
Science and Education
Development Institute
[SEDIInst], Akure, Nigeria
is coming up with more
Book Projects very soon on

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other disciplines
currently in demand for
the advancement of
science, education and
technology.

This newly updated edition
covers a wide range of

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topics relevant to fungal
biology, appealing to
academia and industry
Fungi are extremely
important microorganisms
in relation to human and
animal wellbeing, the

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environment, and in industry. The latest edition of the highly successful *Fungi: Biology and Applications* teaches the basic information required to understand the

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place of fungi in the world while adding three new chapters that take the study of fungi to the next level. Due to the number of recent developments in fungal biology, expert

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author Kevin Kavanagh
found it necessary to not
only update the book as a
whole, but to also provide
new chapters covering
Fungi as Food, Fungi and
the Immune Response, and

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Fungi in the Environment.
Proteomics and genomics
are revolutionizing our
understanding of fungi and
their interaction with the
environment and/or the
host. Antifungal drug

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resistance is emerging as a major problem in the treatment of fungal infections. New fungal pathogens of plants are emerging as problems in temperate parts of the

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world due to the effect of climate change. Fungi: Biology and Applications, Third Edition offers in-depth chapter coverage of these new developments and more—ultimately exposing

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readers to a wider range of topics than any other existing book on the subject. Includes three new chapters, which widen the scope of fungi biology for readers Takes account

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of recent developments in
a wide range of areas
including proteomics and
genomics, antifungal drug
resistance, medical
mycology, physiology,
genetics, and plant

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pathology Provides extra reading at the end of each chapter to facilitate the learning process Fungi: Biology and Applications is designed for undergraduate students,

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researchers, and those working with fungi for the first time (postgraduates, industrial scientists).

This book is a comprehensive manual on the bulk cultivation of

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psilocybin mushrooms,
using do-it-yourself
equipment made of common
materials wherever
possible. It walks you
through every step of the
procedure, providing easy-

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to-follow instructions,
essential information, and
useful advice about
growing these magical
fungi using a simple and
economical methodology.
This book provides

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hundreds of photos and diagrams to help you understand the process--also offering helpful resources for sourcing equipment and materials. Advanced

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procedures are also presented, allowing for rapid progression from the basics to more sophisticated methods of cloning and growing with agar.

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Organic Mushroom

Farming Training Manual On

Mushroom Cultivation:

Cropping In Mushroom

Cultivation Independently

Published

Magic Mushroom Grower's

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Guide Simple Steps to Bulk
Cultivation
Sustainable Rice Straw
Management
Cultivation, Nutritional
Value, Medicinal Effect,
and Environmental Impact

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Biological Nature and
Cultivation Methods
Sustainable Horticulture
Development and Nutrition
Security (Vol. 3)
Organic Mushroom Farming
and Mycoremediation

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This book is a compilation of writings focused on conventional and unconventional insect products. Some of these products are commercial successes,

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while others are waiting to be launched and are the potential produce of the future. In addition to the well known products honey, mulberry silk, and lac, the book

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primarily concentrates
on silk producing
insects other than the
mulberry silkworm,
insects as food, as
sources of medicines,
pest and weed managers,

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and as pollinators. The book highlights the all pervasive role of insects in improving human lives at multiple levels. Accordingly, while most books on

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insects concentrate on how to limit growth in their population, it instead focuses on how to propagate them. In each chapter, the book brings to the fore how

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insects are far more beneficial to us than their well publicised harmful roles. This book approaches both unconventional and conventional insect

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products, such as honey, silk and lac in much more depth than the available literature. It investigates different aspects of the production of these

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insects, such as the related processes, problems and utilities, in dedicated chapters. Because this book deals with the production of insects or their

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produce, it has been named Industrial Entomology, perhaps the only book that truly reveals the tremendous potential of insects to help humans live better

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lives. Based on the research and working experience of the contributors, who are global experts in their respective fields, it provides authentic,

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authoritative and updated information on these topics. The book offers a unique guide for students, teachers, policy planners, small scale industrialists,

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and government ministries of agriculture and industry across the globe. It will provide a much required stimulus to insect appreciation and

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generate enthusiasm for research and the broader acceptance for insect produce. Hopefully, it will also present the Indian perspective on these topics to a global

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readership.

We all are indebted to nature for providing us food and its resources for our subsistence and survival. In the food domain, cereal and

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legume grains occupy the front line, whereas, horticultural crops have occupied the second line of defense. For healthy diet cereals and legumes provide us with

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carbohydrates and protein, whereas, fruits and vegetables provide us minerals and vitamins. Both macro- and micro- nutrients are essential for human

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growth and development.
The fruits and
vegetables are the major
source of micro-
nutrients. It is
estimated that up to 2.7
million lives could

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potentially be saved
each year if fruit and
vegetable production was
sufficiently increased.
Both at national and
international levels,
food and

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agriculture/horticulture development plans and estimates are basically developed, framed and implemented, and narrowed down to cereal production. In the

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present context of
attaining nutrition
security, this mode of
thinking on 'food' needs
to be changed to
'nutrients', which will
include necessarily all

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those crops including fruit and vegetables which provide all macro- and micro-nutrients to ensure balanced nutrition needed for good human health. The

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present publication has
attempted to reflect and
discuss the above views
and ideas on the subject
of sustainable
horticulture development
and nutrition security

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in nine chapters with 32
articles by 32 authors.
Since the publication of
the first edition,
important developments
have emerged in modern
mushroom biology and

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world mushroom
production and products.
The relationship of
mushrooms with human
welfare and the
environment, medicinal
properties of mushrooms,

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and the global marketing value of mushrooms and their products have all garnered great attention. Samenbundeling van gegevens betreffende de teelt van paddestoelen

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als voedingsbron op
kleinschalig en
industrieel niveau.

Ingegaan wordt op de
teelt binnenshuis; de
veldteelt;

voedingswaarde;

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therapeutische waarde;
gif geproduceerd door
schimmels; bereiding van
de schimmelcultuur en
van de paddestoel;
technische aspecten en
ziekten en plagen

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Mushrooms

Radical Mycology

Bacteriological

Analytical Manual

EDIBLE MUSHROOMS & THEIR
CULTIVATION

Easy Indoor & Outdoor

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Cultivation

Fungi

Tool handbook

Mushroom cultivation can help reduce vulnerability to poverty and strengthens livelihoods through the generation of fats yielding and

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nutritious source of food and a reliable source of income. This booklet addresses what to do and how to promote sustainable development of mushroom cultivation for the benefit of the poor. It is aimed at people and organizations providing advisory, business and technical support

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Aquaponics is the integration of aquaculture and soilless culture in a closed production system. This manual details aquaponics for small-scale production--predominantly for home use. It is divided into nine chapters and seven annexes, with

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each chapter dedicated to an individual module of aquaponics. The target audience for this manual is agriculture extension agents, regional fisheries officers, non-governmental organizations, community organizers, government ministers, companies and singles worldwide. The intention is to

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bring a general understanding of aquaponics to people who previously may have only known about one aspect.

From the basics of using mushroom kits to working with grain spawn, liquid cultures, and fruiting chambers, Stephen Russell covers everything

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you need to know to produce mouthwatering shiitakes, oysters, lion's manes, maitakes, and portobellos. Whether you're interested in growing them for your own kitchen or to sell at a local market, you'll soon be harvesting a delicious and abundant crop of mushrooms.

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Small-Scale Aquaponic Food
Production

A Handbook for Psilocybin Enthusiasts
MUSHROOMS

Organic Mushroom Farming
Mushroom Cultivation Technology
First genuinely up-to-date guide to

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psychedelic mushroom cultivation in years, containing information on both indoor and outdoor varieties. Contains step-by-step photographs and illustrations with detailed directions for the cultivation of four different psilocybin species, a resource guide for

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supplies and an introduction to mushroom biology, plus essays on the use of psychoactive mushrooms in traditional and modern contexts and ethnobotanical advice exploring medicinal use and the plant-human relationship.

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Rice seed health and quarantine; The rice plant and its environment; Equipment; Samples and sampling; dry seed inspection; Fungi; Bacteria; Nematodes; Viruses and mycoplasmalike organisms; Field inspection; Seed treatment; Weed seed;

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Insect pests; Fungal pathogens;
Bacterial pathogens; Nematode pest;
Organisms causing grain discoloration
and damage.

Interwoven with short essays on the
lessons of the fungi, Radial Mycology
begins with chapters that explore the

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uniqueness of fungal biology, the critical ecological roles of micro and macro fungi, how to accurately identify mushrooms and mycorrhizal fungi, the importance of lichens as medicines and indicators of environmental quality, and the profound influences that fungi

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have held on the evolution of all life and human cultures. With this foundation laid, the reader is then equipped to work with the fungi directly. Techniques for making potent fungal medicines, growing fermenting fungi for food, and cheaply cultivating

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mushrooms using recycled tools (and yet still achieving lab-quality results) are explored in-depth. Subsequent chapters grow far beyond the limits of other books on mushrooms. Detailed information on the principles and practices of natural mushroom

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farming--largely influenced by the design system of permaculture--is presented along with extensive information on cultivating mycorrhizal fungi and the science of mycoremediation, the application of fungi to mitigate pollution in the

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environment and in our homes. The book ends with deeper insights into the social effects that fungi present from the reflection of mycelial networks in the design of whole societies to a rigorous examination of the history of psychoactive fungi. Written for the

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beginner as well as the experienced mycologist, Radical Mycology is an invaluable reference book for anyone interested in Do-It-Yourself (or Do-It-Together) homesteading, community organizing, food security, natural medicine, grassroots bioremediation,

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and the evolution of human-fungal-ecological relations. More than a book on mushrooms, *Radical Mycology* is a call to ally with the fungi in all efforts to spawn a healthier world. Heavily referenced and vibrantly illustrated by the author, this unprecedented book

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will undoubtedly remain a classic for generations to come.

Mushroom is an important crop of fungal origin that can be cultivated on several agricultural residues. There are about twenty mushroom species grown commercially all over the world,

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specifically known for their attractive flavours and textures that make food delicious. Mushrooms not only contain protein, vitamins and minerals, but also have low calorie content with little fat and sugar. They provide a high amount of qualitative nutrition required for our

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growth and strong immune system.

This is a complete manual on the cultivated edible mushrooms covering all the information from their morphological features to post-harvest preparations. The structure, natural diversity, food and medicinal values,

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impact of climatic factors on their cultivation and cultivation methodologies are all explained in an easy-to-understand way. The economics of mushroom cultivation and ancillary information about mushroom centres, sources of spawn

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and machineries as well as addresses of leading mushroom farms and exporters have been elaborated in the text. The text is intended for the undergraduate students of Agriculture, Biotechnology, Botany and Microbiology. Besides, it will serve as a handy compendium for

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those engaged in mushroom development programmes as well as those interested in establishing their own mushroom farms.

Training Manual On Mushroom Cultivation: Cropping In Mushroom Cultivation

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Techniques, Species and Opportunities
for Commercial Application in
Developing Countries

A Treatise on Seeing and Working
with Fungi

Handbook on Mushroom Cultivation
and Processing (with Dehydration,

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Preservation and Canning)

Mushroom Biology

Edible and Medicinal Mushrooms

*Dr. Gunter Pauli is
challenging the green
movement he has been so
much a part of to do*

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better, to do more. He is the entrepreneur who launched Ecover; those products are probably in many of your homes. He built the largest ecologically-sound

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factory in the world.

His participation in the

Club of Rome and the

founding of Zero

Emissions Research

Institute (ZERI) has

made an immense

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*contribution to
sustainability both in
terms of research,
public awareness and
articulating a visionary
direction. He has
dedicated himself to*

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*teaching and the hands-
on implementation of
projects that have
brought healthy
environments, good
nutrition, health care
and jobs in sustainable*

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*commerce to a myriad of
places in the world.
The discipline of
Mushroom Biology,
created by the authors
of this book, has now
been legitimized by*

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*references in the
scientific literature
and by two International
Conferences devoted to
the subject. This book
sets the parameters of
Mushroom Biology in a*

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*concise manner and also
emphasizes trends and
points out future
directions which will
lead to a greater
utilization of mushrooms
and mushroom products.*

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The discipline was established to bring together persons who have in common scientific or commercial interests involving mushrooms. The authors'

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*definition of mushroom
is more broad than the
usual mycological
definition so that
macrofungi other than
Basidiomycetes can be
included. Mushrooms may*

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*be edible, non-edible,
poisonous or medicinal
species, with hypogeous
or epigeous fruiting
bodies, and their
texture may be fleshy or
non-fleshy. Many aspects*

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of Mushroom Biology are presented, including nutritional and medicinal uses, the role of mushrooms in bioremediation, biotechnology, and in

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*the bioconversion of
waste organic materials
into forms that can
enter the major nutrient
cycles. Basic scientific
studies involving
mushroom species are*

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*also considered with an
emphasis on genetics and
breeding.*

Contents: Mushroom

Biology: Introduction to

Mushroom Biology Concise

Basics of Fungi as

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*Background for Mushroom
Biology: Classification Bi
ology of Fungi General
Principles of Production
of Mushrooms and
Mushroom Products: Introd
uction Mushroom*

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ScienceMushroom

BiotechnologyCurrent

Developments in Mushroom

Biology:Worldwide Trends

Over the Past

DecadeCurrent

Activities. Readership:

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*Graduate students,
mycologists, mushroom
specialists,
nutritionists and
pharmaceutical chemists.
keywords: Mushroom Biolog
y; Biotechnology; Mushroom*

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*s; Fungi; Cell/Molecular
Biology; Mycology*

*The book deals with all
practical aspects of
cultivation technology
of four commonly grown
mushroom viz. oyster,*

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*paddy straw, button and
milky mushroom. The
cultivation technologies
illustrated are suited
to tropical and sub-
tropical conditions that
are very easy to adopt*

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*and economically viable.
Methods to distinguish
edible and poisonous
mushrooms are well
depicted. The historical
events of mushroom
cultivation and recent*

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*developments are
recorded in a
chronological order and
concise manner. An
exhaustive list of
edible, non-edible and
poisonous fungal species*

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*is an important
compilation which can
serve as a check list of
mushroom flora. Further,
description of selected
wild edible mushrooms
and preparation of*

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*compost from spent
mushroom beds are the
unique additions. Most
of the information are
presented in a bound
format of "Mushroom
Cultivation", a newly*

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*offered optional course
for 3rd year B.Sc.*

*(Ag.). Hence emphasis in
this book is two-fold:
to acquaint students and
all the beginners with
mushroom culture and to*

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*appraise the people with
the importance and
multiprong use of
mushroom.*

*About silkworm rearing
Developments and
Applications*

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A MANUAL FOR CULTIVATION

Simple and Advanced

Techniques for Growing

Shiitake, Oyster, Lion's

Mane, and Maitake

Mushrooms at Home

Small Scale Soil-less

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*Urban Agriculture in
Europe*

*Concise Basics and
Current Developments*

*A Manual of Rice Seed
Health Testing*

This Monograph focuses on the

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new approaches that urban agriculture offers to grow food in cities. The author paints a dynamic picture of soil-less and indoor techniques that are currently emerging. A growing number of small scale community-led and entrepreneurial initiatives

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are using such techniques for diverse objectives: to increase resource efficiency; to strengthen food security; to educate and inform or to exploit new market opportunities. The described studies demonstrate how technologies that are typically

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used in high-tech food production can also be harnessed in small projects to generate social and economic benefits at a local level. The author puts a focus on three aspects: to outline the context within which small scale soil-less urban agriculture is developing in

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Europe; to give an overview of the state-of-the-art of projects focusing on this area through case study analysis and to elaborate on emerging questions. Such questions include: is the use of soil-less urban agriculture changing the relationship with,

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and perception of, what is natural and sustainable for urban farmers and small enterprises working in this sector? What is the perceived potential of these soil-less and indoor forms of urban agriculture to meet environmental, social and economic goals? By answering

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these and other questions, the volume is a valuable resource for researchers in agriculture and sustainability, as well as urban farmers.

*Psilocybin Mushroom Handbook
Mushroom Biotechnology
Psilocybin, Magic Mushroom*

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Grower's Guide

Biology and Applications

10 Years, 100 Innovations, 100

Million Jobs

Downsizing Technology for rural

Development, Vol. 1