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Spectral quality of radiation has a
major impact on the growth,

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development, and nutritional quality of crops. The solar radiation spectrum reaching the earth consists of both visible and UV regions, which have significant effects on plant growth and a myriad of plant functions. The main objective of this

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study was to examine the role of spectral quality of supplemental light (visible and UV) on the nutritional quality of lettuce and tomato with regard to their health-promoting phytochemicals and essential nutrients. The study

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included two lettuce varieties, (Lactuca sativa L. cv. red leaf 'New Red Fire' and green leaf 'Two Star') and tomato (Solanum lycopersicum L. cv. 'BHN-589') grown under growth chamber, greenhouse, and field conditions. The effect of

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supplemental visible radiation (blue, red, or far-red) on lettuce was determined under supplemental lighting provided by light emitting diodes (LEDs) in growth chambers with a background of white light (fluorescent lighting-PAR 270

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[μ]mol/m²/s). Supplemental far-red produced higher biomass and larger leaf area in both lettuce varieties compared to the control plants. However, it had an inhibitory effect on the accumulation of many phenolic compounds in red leaf

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lettuce. On the one hand, in red lettuce, supplemental red radiation increased the accumulation of a number of phenolic compounds, while, on the other hand, supplemental blue radiation increased the accumulation of many

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phenolic compounds in green leaf lettuce. Thus, the results show that supplemental visible spectra of light can have a significant impact in enhancing the accumulation of health-promoting phytochemicals in lettuce. To determine the effect of

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supplemental UV on the nutritional quality in lettuce and tomato, the plants were grown under supplemental UV-A, UV-B, and UV-AB radiation using fluorescent lamps in a greenhouse. The overall response to these treatments was

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variable and was species and variety specific. UV-A produced a strong response in red leaf lettuce in improving the accumulation of many flavonoids. Higher accumulation of essential nutrients, including protein, phosphorus,

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calcium, magnesium, copper, zinc, and others, occurred in the green leaf lettuce in response to UV treatments. Supplemental UV-treatments of tomato plants, especially UV-B and UV-AB, produced higher accumulation of

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many phenolic compounds in mature fruits with no significant improvement in the essential nutrients. To further confirm the role of UV in enhancing the nutritional value of these crops, a field study was conducted where lettuce and

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tomato crops were grown in high tunnels covered with photo-selective poly covers to block solar UV radiation. Red leaf lettuce was the most responsive to the UV containing treatment with regard to the accumulation of phenolic

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compounds. Clear poly and exposing the crop to full sun 2 weeks prior to harvest produced the largest increase in many flavonoids. Overall, the results suggest that the spectral quality of light, especially having the full spectrum of UV,

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plays a significant role in the accumulation phenolic compounds and essential nutrients and in improving the health-promoting qualities of both lettuce and tomato. This work presents and evaluates methods employed to identify the

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potential of certain types of chemicals to adversely affect the skin. A variety of test methods are included such as tests for skin penetration, metabolism, irritation, the skin immune system, photo effects, skin cancer, and topical

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effects of retinoids and depigmenting chemicals. Tests for chemicals that affect the reproductive and nervous system are also included. Both animal and human tests that have been standardised and tests that are under

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development and employ animal alternatives are addressed in this book. Besides different testing methods, a rationale for accepting non-animal models and a review of some regulatory agency discussions about animal alternative tests are

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included.

This volume originates from the
NATO Advanced Study Institute
Environmental UV Radiation:
Impact on Ecosystems and Human
Health and Predictive Models, held
in Pisa, Italy in June 2001. The

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Institute was sponsored and mainly funded by the NATO Scientific Affairs Division, whose constant contribution in favour of the cooperation among scientists from different countries must be acknowledged. Other Institutions

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substantially contributed to the success of the ASI and our thanks and appreciation go to the Italian National Research Council (Consiglio Nazionale delle Ricerche), the Italian Space Agency (Agenzia Spaziale Italiana), the

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European Society for Photobiology and the bank Banca Toscana. In the last two decades of the past century, concern has been growing for the possible effects on the biosphere of the stratospheric ozone depletion, due to anthropogenic emissions of

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ozone-destroying chemicals. The ozone loss causes an increase in the biologically important part of the solar ultraviolet radiation (UV) reaching the Earth's surface, which constitutes a threat to the biosphere, because of UV damaging effects on

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humans, animals and plants. The international agreements have reduced the production of ozone-destroying compounds, which, however, are still present in high concentrations in the stratosphere, mainly because of their longevity,

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and thus ozone depletion will likely continue for several decades.

International Conference on
Ultraviolet Carcinogenesis,
An Update : Report of a Workshop
Sponsored by the National Science
Strategy Committee for Climate

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Change, December 1997

The Role of Satellite Remote
Sensing in Monitoring the Global
Environment

Solar Ultraviolet Radiation

Electronic Absorption Spectra of
Olefins in the Ultraviolet and

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Vacuum-ultraviolet Spectral
Regions

Research and Development in
Progress

**This book provides unique
perspectives on both state-of-
the-art hyperspectral techniques**

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**for the early-warning monitoring
of water supplies against
chemical, biological and
radiological (CBR) contamination
effects as well as the emerging
spectroscopic science and
technology base that will be**

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**used to support an array of CBR
defense and security
applications in the future. The
technical content in this book
lends itself to the non-traditional
requirements for point and stand-
off detection that have evolved**

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out of the US joint services programs over many years. In particular, the scientific and technological work presented seeks to enable hyperspectral-based sensing and monitoring that is real-time; in-line; low in

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cost and labor; and easy to support, maintain and use in military- and security-relevant scenarios.

Environmental Toxicology provides a detailed, comprehensive introduction to

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this key area of sustainability and public health research. The broad coverage includes sections on ecological risk assessment, monitoring, mechanisms, fate and transport, prevention, and correctives, as

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well as treatment of the health effects of solar radiation and toxicology in the ocean. The 23 state-of-the-art chapters provide a multi-disciplinary perspective on this vital area, which encompasses environmental

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science, biology, chemistry, and public health.

Sunscreens are universally recommended by dermatologists not only to prevent the immediate effects of overexposure to sunlight but

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also to prevent skin cancer.

While the former goal is immediately evident, the latter remains an unproven hypothesis and is a topic of some controversy. Recent epidemiological studies

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suggesting a correlation between increased use of sunscreens over the past two decades and the rise in skin cancer have led to the question whether sunscreens applied to skin may be undergoing

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photoreactions, the effects of which are elaborated many years later. By addressing the key questions, this book advances the field of sunscreen photobiology and provides the reader with an unbiased

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**perspective on this important
field.**

1966-1976

**Modelling, Measurements and
Effects**

**The Effects of Ultraviolet
Radiation on the Eye**

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**A Symposium Held at San
Francisco, California, March 4, 5,
6, 1964**

**Effects of Increased Ultraviolet
Radiation in the Arctic
Only extensive broadband**

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ultraviolet (UV) radiation angular distribution investigations have been made to this point in time. As the biologically damaging effectiveness of UV radiation is known to be wavelength dependent, it is necessary to expand this research into the

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distribution of the spectral UV. UV radiation is also susceptible to Rayleigh and aerosol scattering processes, both of which are completely wavelength dependent. Additionally the majority of previous measurements detailing the

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biologically damaging effect of spectral UV radiation have been oriented with respect to the horizontal plane or in a plane directed towards the sun (sun-normal), with the irradiance weighted against action spectra formulated specifically for human

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skin and tissue. However, the human body consists of very few horizontal or sun-normal surfaces.

This book essentially comprises the proceedings of the 11th International Conference of Meteorology, Climatology and

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Atmospheric Physics (COMECAP 2012) that is held in Athens from 30 May to 1 June 2012. The Conference addresses researchers, professionals and students interested in the following topics: Agricultural Meteorology and Climatology, Air

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Bioclimatology, Climate**

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Hydrometeorology, Mesoscale
Meteorology,
Micrometeorology/Urban
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**Satellite Meteorology and
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includes all papers that have
been accepted for presentation at
the conference.**

**This textbook provides a
comprehensive understanding of**

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the scattered and filtered solar UV environment, the techniques to measure this radiation and the resulting UV exposures to humans. As is well known, the incidence of skin cancer and sun-related eye disorders can be reduced by minimization

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exposure to UV radiation. The book aims to quantify, understand and provide information on the effects of filtered and scattered UV light. Biological Effects of Ultraviolet Radiation with Emphasis on Human Responses to Longwave

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Ultraviolet

Modern Trends in Applied

Aquatic Ecology

Proceedings of the NATO

Advanced Study Institute on

Environmental UV Radiation:

Impact on Ecosystems and

Human Health and Predictive

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Models Pisa, Italy, June 2001

**An Interdisciplinary Report on
the State of Knowledge and
Research Needed**

**Antarctic Journal of the United
States**

Collected Reprints

Since the first edition in 1948, Patty's

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Industrial Hygiene and Toxicology has become a flagship publication for Wiley. During its nearly seven decades in print, it has become a standard reference for the fields of occupational health and toxicology. The volumes on industrial hygiene are cornerstone reference works for not only industrial hygienists but also

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chemists, engineers, toxicologists, lawyers, and occupational safety personnel. Volume 3 covers Recognition and Evaluation of Physical Agents and Biohazards. All of the chapters have been updated and a new chapter on Robotics has been added. These subjects are increasing in importance to industrial

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hygienists.

Organisms and environment have evolved through modifying each other over millions of years. Humans appeared very late in this evolutionary time scale. With their superior brain attributes, humans emerged as the most dominating influence on the earth. Over the

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millennia, from simple hunter-food gatherers, humans developed the art of agriculture, domestication of animals, identification of medicinal plants, devising hunting and fishing techniques, house building, and making clothes. All these have been for better adjustment, growth, and survival in otherwise harsh

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and hostile surroundings and climate cycles of winter and summer, and dry and wet seasons. So humankind started experimenting and acting on ecological lines much before the art of reading, writing, or arithmetic had developed. Application of ecological knowledge led to development of agriculture, animal

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husbandry, medicines, fisheries, and so on. Modern ecology is a relatively young science and, unfortunately, there are so few books on applied ecology. The purpose of ecology is to discover the principles that govern relationships among plants, animals, microbes, and their total living and nonliving

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environmental components. Ecology, however, had remained mainly rooted in botany and zoology. It did not permeate hard sciences, engineering, or industrial technologies leading to widespread environmental degradation, pollution, and frequent episodes leading to mass deaths and diseases.

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The production of environmentally friendly, sustainable, chemical-free food continues to challenge the food industry, spurring on investigations into alternative food processing techniques that are more sophisticated and diverse than current practices. Exploring one of these emerging solutions, Ultraviolet

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Light in Food Technology: Principles and Applications incorporates the fundamentals of continuous and pulsed UV light generation and propagation; current food regulations; recommendations for optimal UV reactor design, selection, and validation; information on both commercially

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available and under-development UV sources; and the outlook for future food applications. After reviewing essential terms, definitions, and current applications, the book emphasizes the need to properly assess the physical and chemical properties in foods that influence the effectiveness of UV

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treatment and impact inactivation kinetics. It also addresses the effects of UV processing on food quality, before considering the engineering aspects of UV light treatment, such as transport phenomena, process calculations, and continuous-flow reactor geometries. The book then describes the principles of

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validating UV reactors as well as the principles and applications of UV pulsed light, including microbial inactivation in water, meat, fruits, vegetables, and packaging materials. For anyone working in food research, development, and operations, this resource provides broad, accessible information on the

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science and applications of UV light technology. It shows how UV light irradiation can be used as a physical preservation method in food processing.

UV Radiation and Its Effects

Symposium on Biological Effects and Measurement of Light Sources,

Rockville, Maryland, June 9-10, 1980

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*Earth Observation of Global Change
Scientific and Technical Aerospace
Reports*

*Hearing Before the Subcommittee on
Toxic Substances and Environmental
Oversight of the Committee on
Environment and Public Works, United
States Senate, Ninety-seventh Congress,*

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First Session, July 23, 1981

Soybean

Following the rapid developments in the UV-B measurement techniques and the rapidly growing research in the field in

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the late 80's and early 90's, we organized a large gathering of distinguished experts in a NATO Advanced Study Institute, held in Halkidiki, Greece on October, 2-11. 1995. The

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Institute was organized so as to include state of the art lectures on most aspects of solar ultraviolet radiation and its effects. This was achieved by extended

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lectures and discussions given in five sessions by 27 lecturers and a demonstration of field measurements and calibration techniques at the end of the Institute.

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The ASI began with the sun and fundamentals on solar radiative emissions and their variability in time and continued with the interaction of solar Ultraviolet with the

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atmosphere through the complex scattering processes and photochemical reactions involved. Particular emphasis was given to changes in atmospheric

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composition imposed by different manifestations of the solar activity cycle. as well as on the modelling of radiative transfer through the atmosphere and the ocean

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under variable environmental conditions. Overviews on the ozone issue. its monitoring and variability were extensively discussed with emphasis on the observed

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acceleration of ozone decline in the early 90's. This acceleration had as a consequence, significant increases in UV-B radiation observed at a few world-wide distributed

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The origin of this text was a request by industry and government to summarize the biological effects and to estimate the limits of safe

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exposure to longwave ultraviolet radiation. The specific issue was the safety of a small medium-pressure mercury arc designed to emit UV-A (NUVA-Lite, L. D. Caulk

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Co. , Milford, Delaware) for photopolymerization of resinous fillings used in dentistry. However, the context grew to become a consideration of the risks and benefits to humans of

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electromagnetic radiation between the biologically active short UV and the visible spectrum. We have accumulated data from our own experimental work and from the literature and

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have attempted to put this information in the perspective of known biologic effects of ultraviolet radiation as it influences humans. Interest in the biological

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effects of longwave ultraviolet radiation is increasing in all of the many scientific disciplines that make up the complex field of photobiology. In order to

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minimize the chance for error and personal prejudice and to maximize the use of expertise, each chapter has been reviewed by several authorities. Some of the contributions

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of this group led to significant alterations and creative additions to the chapter, and these persons deserve not only our sincere gratitude but also recognition by the

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reader. These include Chapters 2 and 3: Dr. Robert E. Levin, Mr. Charles P. Comeau, Mr. Donald Gonser, Dr. David Sliney; Chapter 5: Dr. Jerry Williams, Dr. Robert

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Webb, Dr. Madhu A.

Psoriasis is the most prevalent autoimmune disease in the U.S. • ~125 million people worldwide have psoriasis. Commonly misunderstood and

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interpreted as a “cosmetic problem, psoriasis is a complex and potentially debilitating disease; nearly 60% of people with psoriasis reported their disease to be a large

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problem in their everyday life. This issue of Dermatologic Clinics devoted exclusively to psoriasis is edited by two leaders of the International Psoriasis

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Council, Dr Alan Menter and Dr Chris Griffiths.

Topics include: Genetics of psoriasis;

Immunopathogenesis of psoriasis; Phenotypical expressions of psoriasis;

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Psoriasis as a systemic disease with multiple comorbidities; Outcomes measures in the assessment of psoriasis in clinical practice and trials; Update on topical

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therapies for mild to moderate psoriasis; Phototherapy and photochemotherapy (PUVA) for psoriasis; Current and future oral systemic therapies for psoriasis;

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Current biological
therapies for psoriasis;
Future biological
therapies for psoriasis;
Psoriatic arthritis for
the dermatologist;
Pharmacogenomics and the

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future of psoriasis therapies. This information that goes to the heart of clinical practice is equally appropriate, beyond dermatologists, for

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internal medicine
clinicians, primary care
physicians, bone & joint
specialists;
hematologists/oncologists,
and researchers in genetic
targeted therapy

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Patty's Industrial Hygiene, Physical and Biological Agents
The Effect of Chlorofluorocarbons on the Ozone Layer

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Sunscreen Photobiology:
Molecular, Cellular and
Physiological Aspects
Scattered and Filtered
Solar UV Measurements
Publications of the
National Bureau of

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Standards ... Catalog

Biology and Medicine

*Effects of Spectral UV on
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*CoatingsEnvironmental UV
Radiation: Impact on
Ecosystems and Human Health*

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and Predictive

Models Proceedings of the
NATO Advanced Study
Institute on Environmental
UV Radiation: Impact on
Ecosystems and Human Health
and Predictive Models Pisa,
Italy, June 2001 Springer

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Science & Business Media

This book presents the importance of applying of novel genetics and breeding technologies. The efficient genotype selections and gene transformations provide for generation of new and

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improved soybean cultivars, resistant to disease and environmental stresses. The book introduces also a few recent modern techniques and technologies for detection of plant stress and characterization of

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biomaterials as well as for processing of soybean food and oil products.

"Covers recent advances in polymer degradation and stabilization. Focuses on the basics of photo- and bio-degradability. Delineates

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special and general environmental parameters such as solar irradiation, temperature, and agrochemical exposure. Surveys plastic waste disposal strategies such as recycling, incineration,

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*chemical recovery by
pyrolysis,
Genetics and Novel
Techniques for Yield
Enhancement
Handbook of Polymer
Degradation
Environmental Toxicology*

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*Advances in Meteorology,
Climatology and Atmospheric
Physics*

*Photomorphogenesis in Plants
Nuclear Science Abstracts*

This is the first book to examine
comprehensively the chlorine industry and
its effects on the environment. It covers n

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only the history of chlorine production, but also looks at its products, their effects on the global environment, and the international legislation which controls their use, release, and disposal. Individual chapters are dedicated to subjects such as releases of organochlorines into the environment, and the environmental

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impact of ozone depletion, providing simple explanations of these complex issues. These are backed up with case studies of landmark events in the history of the chlorine industry - for example the Seveso explosion or the Yusho and Yu-Cheng mass poisonings. With a clear, concise text and numerous compilations of

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critical data, this book will prove an invaluable source reference for environmental scientists, students, and policy makers with an interest in this subject.

An argon gas forced transpiration arc (FTA) source used to produce a high intensity 180 nm to above 2.5 micron

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continuous spectrum was described. Calibration technics, monitoring instrumentation and procedures for studying the effects of ultraviolet on the eye were presented. An ultraviolet space energy profile was composed using data from rocket flights. (Author).

Encyclopedia of Applied Plant Sciences,

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Second Edition presents both foundational and applied information on plants used by humans as sources of food, raw materials, and amenity purposes. It highlights how the underlying science and information links through to applications in practical situations. Since the last edition was published, the role of applied science in

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agricultural production has been brought into greater focus as fluctuations in global food production feed through into prices and availability to consumers. At the same time, technological advances are changing the way plant science is done. This Second Edition has been expanded to include specific chapters on the leading crops and

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crop-types, as well as updated chapters on plant development, photosynthesis, metabolism, nutrition, reproduction, seed biology, plant pests and diseases, weed biology, and responses to environmental stresses. The updated chapters reflect progress, particularly in genome sequencing and molecular genetics and

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biotechnology, including genetic modification, that have taken place since the first edition was published. In addition, the book places these developments in the wider context of biodiversity, food security, intellectual property, and ethical considerations. Presents complete, up-to-date, authoritative information on over 25

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separate areas of plant science, covering both theory and applications Edited and written by a distinguished international group of editors and contributors Provides concise, easy to read gateway entries to topics, each supplemented with a further reading list that allows practitioners, students, and researchers to delve deeper

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into each topic

Dermatotoxicology Methods

The Angular Distribution of the Solar Ultraviolet Spectrum

An Overview of the Chlorine Industry

Psoriasis: Advances in Knowledge and Care, An Issue of Dermatologic Clinics, Proceedings of the International

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Symposium on Remote Sensing of
Environment

Nuclear Power Reactor Instrumentation
Systems Handbook

**Global Change is
increasingly considered
a critical topic in**

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environmental research.

Remote sensing methods provide a useful tool to monitor global variables, since they provide a systematic coverage of the Earth's

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surface, at different spatial, spectral and temporal resolutions.

This book offers an analysis of the leading missions in global Earth observation, and reviews

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the main fields in which remote sensing methods are providing vital data for global change studies.

David Dickinson is a household name, the king

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of the catchphrase, undisputed darling of daytime TV and a rising star. He's a respected antiques expert and exudes a taste for the finer things in life.

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But the road to his success has not been as smooth as his patten and he's learnt a lot at the school of hard knocks.

Spectral Sensing
Research for Water

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Monitoring Applications
and Frontier Science and
Technology for Chemical,
Biological and
Radiological Defense
Impacts of Climatic
Change on the Biosphere

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Ultraviolet Light in
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Principles and
Applications
Environmental UV
Radiation: Impact on
Ecosystems and Human

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