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Cluster Analysis in Neuropsychological Research Mar 16 2021 Cluster analysis is a multivariate classification technique that allows for identification of homogenous subgroups within diverse samples based on shared characteristics. In recent years, cluster analysis has been increasingly applied to psychological and neuropsychological variables to address a number of empirical questions. This book provides an overview of cluster analysis, including statistical and methodological considerations in its application to neurobehavioral variables. First, an introduction to cluster analysis is presented that emphasizes issues of relevance to neuropsychological research, including controversies surrounding its use. Cluster analysis is then applied to clinical disorders that do not have an associated prototypical neuropsychological profile, including traumatic brain injury, schizophrenia, and health problems associated with homelessness. In a second application, cluster analysis is used to investigate the course of normal memory development. Finally, cluster analysis is applied to classification of brain injury severity in children and adolescents who sustained traumatic brain injury.

[Solutions and Applications of Scattering, Propagation, Radiation and Emission of Electromagnetic Waves](#) Dec 25 2021 In this book, a wide range of different topics related to analytical as well as numerical solutions of problems related to scattering, propagation, radiation, and emission in different medium are discussed. Design of several devices and their measurements aspects are introduced. Topics related to microwave region as well as Terahertz and quasi-optical region are

considered. Bi-isotropic metamaterial in optical region is investigated. Interesting numerical methods in frequency domain and time domain for scattering, radiation, forward as well as reverse problems and microwave imaging are summarized. Therefore, the book will satisfy different tastes for engineers interested for example in microwave engineering, antennas, and numerical methods.

Managing Complex Technical Projects Jun 30 2022 Annotation The authors, who both teach electrical engineering at the U. of New South Wales, Australia, have written a text that will be useful for the undergraduate and graduate classroom. The philosophical aspects of the field are provided as an overview, with descriptions of procedures, vocabulary, and standards. Systems engineering is then described, with sections on all stages of design, systems engineering management, tools, and applications. A chapter is included on the interrelationship between systems engineering and fields such as project management, quality management, and integrated logistics support management. Annotation copyrighted by Book News, Inc., Portland, OR

Solutions to Engineering Mathematics Vol.II Nov 23 2021

Adapting the WHO Rehabilitation Competency Framework to a specific context Apr 28 2022 This guide complements the Rehabilitation Competency Framework (RCF) and proposes a methodology for adapting the RCF model to a specific context, such as for a particular profession, specialization or setting. Adapting the RCF involves extracting the relevant content and customizing it for the context and intended application. Once adapted, the context-specific framework can be implemented, such as to support education and training, regulation, or performance appraisal (see Section II).

C4 Plant Biology Apr 04 2020 Due to many issues related to long-term carbon dynamics, an improved understanding of the biology of C4 photosynthesis is required by more than the traditional audience of crop scientists, plant physiologists, and plant ecologists. This work synthesizes the latest developments in C4 biochemistry, physiology, systematics, and ecology. The book concludes with chapters discussing the role of C4 plants in the future development of the biosphere, particularly their interactive effects on soil, hydrological, and atmospheric processes.

Introduction to Probability Jun 06 2020 Developed from celebrated Harvard statistics lectures, *Introduction to Probability* provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The print book version includes a code that provides free access to an eBook version. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment.

Quality Tools for Managing Construction Projects Jul 08 2020 Dealing with such a multi-layered and fungible intangible as quality during the design and construction process is difficult for all parties involved. To the architect, quality means an appealing and enduring design, but to the builder, it means understandable documents that, when acted upon, lead to an enduring, well-made structure. To the owner,

Proceedings of the International Conference on Soft Computing Systems Dec 01 2019 The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

Corrosion Prevention and Protection Oct 11 2020 Corrosion Prevention and Protection: Practical Solutions presents a functional approach to the various forms of corrosion, such as uniform corrosion, pitting corrosion, crevice corrosion, galvanic corrosion, stress corrosion, hydrogen-induced damage, sulphide stress cracking, erosion-corrosion, and corrosion fatigue in various industrial environments. The book is split into two parts. The first, consisting of five chapters: Introduction and Principles (Fundamentals) of Corrosion Corrosion Testing, Detection, Monitoring and Failure Analysis Regulations, Specifications and Safety Materials: Metals, Alloys, Steels and Plastics Corrosion Economics and Corrosion Management The second part of the book consists of two chapters which present: a discussion of corrosion reactions, media, active and active-passive corrosion behaviour and the various forms of corrosion, a collection of case histories and practical solutions which span a wide range of industrial problems in a variety of frequently encountered environments, including statues & monuments, corrosion problems in metallurgical and mineral processing plants, boilers, heat exchangers and cooling towers, aluminum and copper alloys, galvanized steel structures as well as hydrogeological environmental corrosion This text is relevant to researchers and practitioners, engineers and chemists, working in corrosion in industry, government laboratories and academia. It is also suitable as a course text for engineering students as well as libraries related to chemical and chemical engineering institutes and research departments.

Core Mathematics C3 Oct 23 2021 Easing the transition from GCSE to AS level, this textbook meets the 2004 Edexcel specifications and provides numerous worked examples and solutions to aid understanding of key concepts.

Problems and Solutions Mathematics Class XI Jan 26 2022 1.Sets, 2 .Relations and Functions, 3 .Trigonometric Functions, 4. Principle of Mathematical Induction , 5. Complex Numbers and Quadratic Equations , 6 .Linear Inequalities, 7. Permutations and Combinations, 8 .Binomial Theorem , 9. Sequences and Series, 10. Straight Lines, 11. Conic Sections, 12. Introduction to Three-Dimensional Geometry, 13. Limits and Derivatives , 14. Mathematical Reasoning , 15. Statistics , 16. Probability.

Hybrid Artificial Intelligence Systems Sep 09 2020 The Third International Workshop on Hybrid Artificial Intelligence Systems (HAIS 2008) presented the most recent developments in the dynamically expanding realm of symbolic and sub-symbolic techniques aimed at the construction of highly robust and reliable problem-solving techniques. Hybrid intelligent systems have become increasingly popular given their capabilities to handle a broad spectrum of real-world complex problems which come with inherent imprecision, uncertainty and vagueness, high-dimensionality, and non stationarity. These systems provide us with the opportunity to exploit existing domain knowledge as well as raw data to come up with promising solutions in an effective manner. Being truly multidisciplinary, the series of HAIS workshops offers a unique research forum to present and discuss the latest theoretical advances and real-world applications in this exciting research field. This volume of Lecture Notes on Artificial Intelligence (LNAI) includes accepted papers presented at HAIS 2008 held in University of Burgos, Burgos, Spain, September 2008 The global purpose of HAIS conferences has been to form a broad and interdisciplinary forum for hybrid artificial intelligence systems and associated learning paradigms, which are playing increasingly important roles in a large number of application areas. Since its first edition in Brazil in 2006, HAIS has become an important forum for researchers working on fundamental and theoretical aspects of hybrid artificial intelligence systems based on the use of agents and multiagent systems, bioinformatics and bio-inspired models, fuzzy systems, artificial vision, artificial neural networks, optimization models and alike.

Key Case Law Rules for Government Contract Formation Feb 01 2020 Go Beyond the FAR! The guidance contained in the almost 2000 pages of the Federal Acquisition Regulation and the various agency supplements are just a part of the resources government acquisition professionals need to do their jobs effectively. Accessing and understanding case law is equally important to a thorough understanding of government contracting. Legal decisions explain the Government Accountability Office's and the courts' views on how procurement statutes and regulations apply in a wide range of situations. Case law also gives potential bid protesters and agencies a way to gauge the likely

outcome of a protest. Until now, it has been difficult to find and understand the legal decisions that could be relevant to a particular situation. Key Case Law Rules for Government Contract Formation changes that by organizing and explaining the most important protest grounds in a readily accessible and comprehensible way. With an emphasis on more recent cases, the book is organized around the key protest grounds, such as pricing issues, allegations that the government wrongfully prevented competition, or improper sealed-bidding procedures. Bridging the gap of understanding between the legal and the contracting communities, this book is a much-needed addition to the essential resources for acquisition professionals.

Concrete Solutions Aug 21 2021 Concrete repair continues to be a subject of major interest to engineers and technologists worldwide. The concrete repair budget for the UK alone currently runs at some UKP 220 per annum. Some estimates have indicated that, worldwide, in 2010 the expenditure for maintenance and repair work will represent about 85% of the total expenditure in the construction field. It has been forecast that, in the same year in the USA, 50 billion dollars will be spent just for the restoration of deteriorated bridges and viaducts. An understanding of the latest techniques in repair and testing and inspection is thus crucial to the international construction industry. This book, with contributions from 34 countries, brings together the best in research, practical application, strategy and theory relating to concrete repair, testing and inspection, fire damage, composites and electro-chemical repair.

Focusing Solutions for Data Mining Nov 04 2022 In the first part, this book analyzes the knowledge discovery process in order to understand the relations between knowledge discovery steps and focusing. The part devoted to the development of focusing solutions opens with an analysis of the state of the art, then introduces the relevant techniques, and finally culminates in implementing a unified approach as a generic sampling algorithm, which is then integrated into a commercial data mining system. The last part evaluates specific focusing solutions in various application domains. The book provides various appendices enhancing easy accessibility. The book presents a comprehensive introduction to focusing in the context of data mining and knowledge discovery. It is written for researchers and advanced students, as well as for professionals applying data mining and knowledge discovery techniques in practice.

C4 Photosynthesis and Related CO₂ Concentrating Mechanisms Apr 16 2021 The C₄ pathway of photosynthesis was discovered and characterized, more than four decades ago. Interest in C₄ pathway has been sustained and has recently been boosted with the discovery of single-cell C₄ photosynthesis and the successful introduction of key C₄-cycle enzymes in important crops, such as rice. Further, cold-tolerant C₄ plants are at the verge of intense exploitation as energy crops. Rapid and multidisciplinary progress in our understanding of C₄ plants warrants a comprehensive documentation of the available literature. The book, which is a state-of-the-art overview of several basic and applied aspects of C₄ plants, will not only provide a ready source of information but also triggers further research on C₄ photosynthesis. Written by internationally acclaimed experts, it provides an authoritative source of progress made in our knowledge of C₄ plants, with emphasis on physiology, biochemistry, molecular biology, biogeography, evolution, besides bioengineering C₄ rice and biofuels. The book is an advanced level textbook for postgraduate students and a reference book for researchers in the areas of plant biology, cell biology, biotechnology, agronomy, horticulture, ecology and evolution.

Self-Help to CBSE Mathematics (Solutions of R.D. Sharma) for Class 12 Sep 21 2021 Solutions of RD Sharma class 12

Proceedings of the Symposium on Oxide Films on Metals and Alloys May 06 2020

The Blue Zones Solution Jun 26 2019 In this groundbreaking book, Dan Buettner reveals how to transform your health using smart eating and lifestyle habits gleaned from new research on the diets, eating habits, and lifestyle practices of the communities he's identified as "Blue Zones", those places with the world's longest-lived, and thus healthiest, people, including locations such as Okinawa, Japan; Sardinia, Italy; Costa Rica's Nicoya Peninsula; Ikaria, Greece; and Loma Linda,

California. With the audacious belief that the lifestyles of the world's Blue Zones could be adapted and replicated in towns across North America, Buettner launched the largest preventive health care project in the United States, The Blue Zones City Makeovers, which has impacted the health of millions of Americans since 2009. In *The Blue Zones Solution*, readers can be inspired by the specific stories of the people, foods, and routines of our healthy elders; understand the role community, family, and naturally healthy habits can play in improving our diet and health; and learn the exact foods, including the 50 superfoods of longevity and dozens of recipes adapted for Western tastes and markets, that offer delicious ways to eat your way to optimum health. Throughout the book are lifestyle recommendations, checklists, and stories to help you create your own personal Blue Zones solution. Readers will learn and apply the 80/20 rule, the plant slant diet, social aspects of eating that lead to weight loss and great health naturally, cultivating your "tribe" of friends and family, and your greater purpose as part of your daily routine. Filled with moving personal stories, delicious recipes, checklists, and useful tips that will transform any home into a miniature blue zone, *The Blue Zones Solution* is the ultimate blueprint for a healthy, happy life.

PC Magazine Aug 28 2019

The William Lowell Putnam Mathematical Competition 1985-2000: Problems, Solutions, and Commentary Feb 12 2021 This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes. The authors highlight connections to other problems, to the curriculum and to more advanced topics. The best problems contain kernels of sophisticated ideas related to important current research, and yet the problems are accessible to undergraduates. The solutions have been compiled from the *American Mathematical Monthly*, *Mathematics Magazine* and past competitors. Multiple solutions enhance the understanding of the audience, explaining techniques that have relevance to more than the problem at hand. In addition, the book contains suggestions for further reading, a hint to each problem, separate from the full solution and background information about the competition. The book will appeal to students, teachers, professors and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics.

Electrolyte Data Collection Oct 30 2019

Department of Homeland Security Appropriations for 2008 Jul 28 2019

Mathematical Questions and Solutions, from the "Educational Times" Mar 28 2022

Component-Based Software Engineering Jan 14 2021 The 2010 Symposium on Component-Based Software Engineering (CBSE 2010) was the 13th in a series of successful events that have grown into the main forum for industrial and academic experts to discuss component technology. CBSE is concerned with the development of software-intensive systems from - dependently developed software-building blocks (components), the development of components, and system maintenance and improvement by means of com- nent replacement and customization. The aim of the conference is to promote a science and technology foundation for achieving predictable quality in software systems through the use of software component technology and its associated software engineering practices. In line with a broad interest, CBSE 2010 received 48 submissions. From these submissions, 14 were accepted after a careful peer-review process followed by an online program committee discussion. This resulted in an acceptance rate of 29%. The selected technical papers are published in this volume. For the fourth time, CBSE 2010 was held as part of the conference series: Fed- ated Events on Component-Based Software Engineering and Software Archit- ture (COMPARCH). The federated events were: the 13th International S- posium on Component-Based Software Engineering (CBSE 2010), the 6th - ternational Conference on the Quality of Software Architectures (QoSA 2010), and the 1st International Symposium on Architecting Critical Systems (ISARCS 2010). Together with COMPARCH's Industrial Experience Report Track and the co-located Workshop on Component-Oriented Programming (WCOP 2010), COMPARCH provided a broad spectrum of events related to components and architectures.

Handbook of Nonlinear Partial Differential Equations, Second Edition Jun 18 2021 New to the Second

Edition More than 1,000 pages with over 1,500 new first-, second-, third-, fourth-, and higher-order nonlinear equations with solutions Parabolic, hyperbolic, elliptic, and other systems of equations with solutions Some exact methods and transformations Symbolic and numerical methods for solving nonlinear PDEs with Maple™, Mathematica®, and MATLAB® Many new illustrative examples and tables A large list of references consisting of over 1,300 sources To accommodate different mathematical backgrounds, the authors avoid wherever possible the use of special terminology. They outline the methods in a schematic, simplified manner and arrange the material in increasing order of complexity.

Elementary Differential Equations and Boundary Value Problems Feb 24 2022 Elementary Differential Equations and Boundary Value Problems, 12th Edition is written from the viewpoint of the applied mathematician, whose interest in differential equations may sometimes be quite theoretical, sometimes intensely practical, and often somewhere in between. In this revision, new author Douglas Meade focuses on developing students conceptual understanding with new concept questions and worksheets for each chapter. Meade builds upon Boyce and DiPrima's work to combine a sound and accurate (but not abstract) exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications. The main prerequisite for engaging with the program is a working knowledge of calculus, gained from a normal two or three semester course sequence or its equivalent. Some familiarity with matrices will also be helpful in the chapters on systems of differential equations.

Pure Mathematics C3 C4 Aug 09 2020 No further information has been provided for this title.

Official Gazette of the United States Patent and Trademark Office Sep 29 2019

Applied Mathematics III/IV (Bhilai) Dec 13 2020

Edexcel AS and a Level Modular Mathematics Core Mathematics 1 C1 Sep 02 2022 "This book helps in raising and sustaining motivation for better grades. These books are the best possible match to the specification, motivating readers by making maths easier to learn. They include complete past exam papers and student-friendly worked solutions which build up to practice questions, for all round exam preparation. These books also feature real-life applications of maths through the 'Life-links' and 'Why ...?' pages to show readers how this maths relates, presenting opportunities to stretch and challenge more apply students. Each book includes a Live Text CDRom which features: fully worked solutions examined step-by-step, animations for key learning points, and revision support through the Exam Cafe."--Publisher's description

Strategies and Solutions to Advanced Organic Reaction Mechanisms Jul 20 2021 Strategies and Solutions to Advanced Organic Reaction Mechanisms: A New Perspective on McKillop's Problems builds upon Alexander (Sandy) McKillop's popular text, Solutions to McKillop's Advanced Problems in Organic Reaction Mechanisms, providing a unified methodological approach to dealing with problems of organic reaction mechanism. This unique book outlines the logic, experimental insight and problem-solving strategy approaches available when dealing with problems of organic reaction mechanism. These valuable methods emphasize a structured and widely applicable approach relevant for both students and experts in the field. By using the methods described, advanced students and researchers alike will be able to tackle problems in organic reaction mechanism, from the simple and straight forward to the advanced. Provides strategic methods for solving advanced mechanistic problems and applies those techniques to the 300 original problems in the first publication Replaces reliance on memorization with the understanding brought by pattern recognition to new problems Supplements worked examples with synthesis strategy, green metrics analysis and novel research, where available, to help advanced students and researchers in choosing their next research project

Optimization Techniques and their Applications to Mine Systems May 18 2021 This book describes the fundamental and theoretical concepts of optimization algorithms in a systematic manner, along with their potential applications and implementation strategies in mining engineering.

It explains basics of systems engineering, linear programming, and integer linear programming, transportation and assignment algorithms, network analysis, dynamic programming, queuing theory and their applications to mine systems. Reliability analysis of mine systems, inventory management in mines, and applications of non-linear optimization in mines are discussed as well. All the optimization algorithms are explained with suitable examples and numerical problems in each of the chapters. Features include:

- Integrates operations research, reliability, and novel computerized technologies in single volume, with a modern vision of continuous improvement of mining systems.
- Systematically reviews optimization methods and algorithms applied to mining systems including reliability analysis.
- Gives out software-based solutions such as MATLAB®, AMPL, LINDO for the optimization problems.
- All discussed algorithms are supported by examples in each chapter.
- Includes case studies for performance improvement of the mine systems. This book is aimed primarily at professionals, graduate students, and researchers in mining engineering.

Student Solutions Manual for Zill's Differential Equations with Boundary-Value Problems

Oct 03 2022 Go beyond the answers -- see what it takes to get there and improve your grade! This manual provides worked-out, step-by-step solutions to select odd-numbered problems in the text, giving you the information you need to truly understand how these problems are solved. Each section begins with a list of key terms and concepts. The solutions sections also include hints and examples to guide you to greater understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics May 30 2022 Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics is the first book to provide a systematic construction of exact solutions via linear invariant subspaces for nonlinear differential operators. Acting as a guide to nonlinear evolution equations and models from physics and mechanics, the book focuses on the existence of new exact solutions on linear invariant subspaces for nonlinear operators and their crucial new properties. This practical reference deals with various partial differential equations (PDEs) and models that exhibit some common nonlinear invariant features. It begins with classical as well as more recent examples of solutions on invariant subspaces. In the remainder of the book, the authors develop several techniques for constructing exact solutions of various nonlinear PDEs, including reaction-diffusion and gas dynamics models, thin-film and Kuramoto-Sivashinsky equations, nonlinear dispersion (compacton) equations, KdV-type and Harry Dym models, quasilinear magma equations, and Green-Naghdi equations. Using exact solutions, they describe the evolution properties of blow-up or extinction phenomena, finite interface propagation, and the oscillatory, changing sign behavior of weak solutions near interfaces for nonlinear PDEs of various types and orders. The techniques surveyed in Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics serve as a preliminary introduction to the general theory of nonlinear evolution PDEs of different orders and types.

Time Continuity in Discrete Time Models Jan 02 2020 Production planning problems containing special characteristics from process industries are addressed in this book. The main subject is the development of mathematical programming models that allow to model production plans which are not disrupted by discretization of time. However, discrete time models are used as a basis and are subsequently enhanced to include aspects of time continuity. Their integration is achieved by different building blocks which may be combined freely according to the specific planning situation at hand. The primary area of application of these kinds of models are process industries.

Homotopy Analysis Method in Nonlinear Differential Equations Mar 04 2020 "Homotopy Analysis Method in Nonlinear Differential Equations" presents the latest developments and applications of the analytic approximation method for highly nonlinear problems, namely the homotopy analysis method (HAM). Unlike perturbation methods, the HAM has nothing to do with small/large physical parameters. In addition, it provides great freedom to choose the equation-type of linear sub-problems and the base functions of a solution. Above all, it provides a convenient way to guarantee

the convergence of a solution. This book consists of three parts. Part I provides its basic ideas and theoretical development. Part II presents the HAM-based Mathematica package BVPh 1.0 for nonlinear boundary-value problems and its applications. Part III shows the validity of the HAM for nonlinear PDEs, such as the American put option and resonance criterion of nonlinear travelling waves. New solutions to a number of nonlinear problems are presented, illustrating the originality of the HAM. Mathematica codes are freely available online to make it easy for readers to understand and use the HAM. This book is suitable for researchers and postgraduates in applied mathematics, physics, nonlinear mechanics, finance and engineering. Dr. Shijun Liao, a distinguished professor of Shanghai Jiao Tong University, is a pioneer of the HAM.

Student Solutions Manual to Boundary Value Problems Aug 01 2022 This student solutions manual accompanies the text, *Boundary Value Problems and Partial Differential Equations*, 5e. The SSM is available in print via PDF or electronically, and provides the student with the detailed solutions of the odd-numbered problems contained throughout the book. Provides students with exercises that skillfully illustrate the techniques used in the text to solve science and engineering problems Nearly 900 exercises ranging in difficulty from basic drills to advanced problem-solving exercises Many exercises based on current engineering applications

Orchid Biology: Recent Trends & Challenges Nov 11 2020 This book on “Orchid Biology: Recent Trends & Challenges” reviews the latest strategies for the preservation and conservation of orchid diversity and orchid germplasm. It is an outcome of the Proceedings of the International Symposium on “Biodiversity of Medicinal Plants & Orchids: Emerging Trends and Challenges” held on 9-11 February 2018 at Acharya Nagarjuna University, India. In addition, eminent orchid experts from around the globe were invited to contribute to this book. All chapters were peer-reviewed by international experts. The Orchidaceae are one of the largest families of flowering plants, comprising over 700 genera and 22,500 species and contributing roughly 40 percent of monocotyledons. They also represent the second-largest flowering plant family in India, with 1,141 species in 166 genera, and contribute roughly 10% of Indian flora. Orchids comprise a unique group of plants and their flowers are among the most enchanting and exquisite creations of nature. Phylogenetically and taxonomically, the Orchidaceae are considered to be a highly evolved family among angiosperms. They show incredible diversity in terms of the shape, size and colour of their flowers, and are of great commercial importance in floriculture markets around the globe. Millions of cut flowers of *Cymbidium*, *Dendrobium*, *Cattleya*, *Paphiopedilum*, *Phalaenopsis*, *Vanda* etc., besides potted orchid plants, are sold in Western Countries and thus, the orchid cut flower industry has now become a multimillion-dollar business in Europe, the USA and South East Asia. Besides their ornamental value, orchids hold tremendous pharmaceutical potential. Root tubers of *Habenaria edgeworthii* form an important component of the ‘Astavarga’ group of drugs in Ayurvedic medicine. It is an established fact that tubers of some terrestrial orchids have been used to treat diarrhoea, dysentery, intestinal disorders, cough, cold and tuberculosis. Some orchids, particularly those belonging to the genera *Aerides*, *Arachnis*, *Cattleya*, *Cymbidium*, *Dendrobium*, *Epidendrum*, *Oncidium*, *Paphiopedilum*, *Phalaenopsis*, *Renanthera*, *Vanda* etc. have been extensively used to produce internationally acclaimed hybrids. Yet paradoxically, Indian orchids are victims of their own beauty and popularity. As a result, their natural populations have been declining rapidly because of unbridled commercial exploitation in India and abroad. In fact, some orchids are now at the verge of extinction, e.g. *Renanthera imschootiana*, *Diplomeris hirsuta*, *Paphiopedilum fairrieanum*, *Cypripedium elegans*, *Taeniophyllum andamanicum* etc. Given the global importance of orchids in terms of securing human health and wealth, this comprehensive compilation, prepared by international experts, is highly topical. Its content is divided into five main sections: (I) Cryopreservation & Biotechnology, (II) Orchid Biodiversity & Conservation, (III) Anatomy & Physiology, (IV) Pollination Biology and (V) Orchid Chemicals & Bioactive Compounds. All contributions were written by eminent orchid experts/professors from around the world, making the book a valuable reference guide for all researchers, teachers, orchid enthusiasts, orchid growers and students of biotechnology, botany,

pharmaceutical sciences and ethnomedicine. It will be equally valuable for readers from the horticultural industry, especially the orchid industry, agricultural scientists and policymakers.

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Access Free oldredlist.iucnredlist.org on December 5, 2022 Free Download Pdf