

# D

## Vitamin D

Vitamin D: Volume One: Biochemistry, Physiology and Diagnostics, Fourth Edition, presents the latest information from international experts in endocrinology, bone biology and human physiology, taking readers through the basic research of vitamin D. This impressive reference presents a comprehensive review of the multifaceted vitamin D. Researchers from all areas will gain insight into how clinical observations and practices can feed back into the research cycle, thus allowing them to develop more targeted genomic and proteomic insights on the mechanisms of disease. - Offers a comprehensive reference, ranging from basic bone biology, to biochemistry, to the clinical diagnostic and management implications of vitamin D - Saves researchers and clinicians time in quickly accessing the very latest details on the diverse scientific and clinical aspects of Vitamin D, as opposed to searching through thousands of journal articles - Targets chemistry, metabolism and circulation, mechanisms of action, mineral and bone homeostasis, human physiology, diagnosis and management, nutrition, sunlight, genetics and vitamin D deficiency - Volume II of this collection presents a clinical focus on disorders, analogs, cancer; immunity, inflammation and disease and therapeutic applications

## Power of Vitamin D

Vitamin D is crucial to our health, yet most people are low in this vital vitamin - despite the vitamins they take, the foods they eat, the milk they drink or the sun exposure they receive. In Power of Vitamin D you will learn: ?Çó Why we are facing a true Epidemic of Vitamin D deficiency. ?Çó The crucial role Vitamin D can play in the Prevention as well as Treatment of various Cancers. ?Çó How Vitamin D can help Prevent Diabetes, Coronary Heart Disease, Hypertension and Kidney Disease. ?Çó How Vitamin D can Prevent as well as Treat Muscle Aches, Chronic Fatigue, Fibromyalgia, Bone Pains and Osteoporosis. ?Çó The vital role of Vitamin D in the normal functioning of the Immune System. ?Çó How Vitamin D can Prevent as well as Treat the Common Cold, Tuberculosis, Asthma, Thyroid Diseases, M.S., Lupus and Arthritis. ?Çó The essential role of Vitamin D during Pregnancy for Mothers and Babies. ?Çó Doctors frequently miss the Diagnosis of Vitamin D deficiency because they often order the wrong test. ?Çó The right test to Diagnose Vitamin D deficiency. ?Çó The best way to Prevent and Treat Vitamin D deficiency. ?Çó Vitamin D Toxicity and how to Prevent it. ?Çó Not just theoretical knowledge, but detailed, practical information from actual Case Studies.

## Extraskeletal Effects of Vitamin D

While the skeletal effects of vitamin D are well-documented, the role and importance of vitamin D outside of bone health has not been well-established. Vitamin D receptors are located in nearly every tissue of the body, and low levels of vitamin D are associated with a range of various diseases. This book provides an in-depth examination of these extraskeletal effects of vitamin D and the associations between vitamin D deficiency and various disease states. Beginning with a review of the biochemistry and physiology of vitamin D, subsequent chapters investigate its relationship to autoimmune and infectious diseases, various forms of cancer, endocrine issues such as diabetes, obesity and reproductive function, cardiovascular disease and muscle weakness. Concluding chapters discuss the role of vitamin D in neurological disorders, including Alzheimer's Disease, and cognitive function. Focusing on extraskeletal effects only across a range of conditions, Extraskeletal Effects of Vitamin D will be an important resource for clinical endocrinologists and primary care physicians.

## Handbook of Vitamin D in Human Health

The authors document and define many of the key health related roles of vitamin D. Its traditional application in bone and muscle health as well as therapy of arthritis is expanded and clarified with new research. A better understanding of the effects of vitamin D inadequacy is modelled using problems ranging from infant growth retardation to chronic kidney and periodontal disease. Uniquely the vitamin's role in resistance and treatment of infectious diseases is shown in examples ranging from HIV/AIDS to tuberculosis. Mechanistic understanding of vitamin D's actions is enhanced by looking into its effects on immune modulation and inflammation. Expansion of the role of sunlight in stimulating vitamin D production is discussed relative to the reduction in a variety of cancers.

### A Critical Evaluation of Vitamin D

Vitamin D, a fat-soluble vitamin, also called as "sunshine vitamin" is derived mostly from sun exposure and food, and for normal activation, it has to undergo two hydroxylation reactions. Vitamin D affects more than 2000 genes in the body. Serum level of 25(OH) D is an ideal indicator of vitamin D status in our body. Vitamin D deficiency leads to various diseases. On a therapeutic point of view, vitamin D helps to treat many diseases. The book "A Critical Evaluation of Vitamin D - Clinical Overview" targets the principles, mechanisms, and clinical significance of vitamin D. This book covers four sections: "Vitamin D in Cardiovascular and Renal Diseases"

### Vitamin D Revolution

Recent, groundbreaking medical research has made a connection between Vitamin D deficiency and 17 types of cancers, including breast, colon, and prostate. Illnesses such as influenza, diabetes, multiple sclerosis, and coronary heart disease have also been connected to a lack of this vitamin. Until not too long ago, not getting enough Vitamin D (the sunshine vitamin) was only associated with rickets, the childhood bone disease. Now, Soram Khalsa, M.D., sheds new light on the power of this long-forgotten vitamin. He reveals how to recognize signs of Vitamin D deficiency, which has reached epidemic proportions in North America, and then shares insights from his Beverly Hills medical practice, where he normalizes his own patients' Vitamin D levels for their optimal health.

### Vitamin D

Vitamin D insufficiency/deficiency is a worldwide, public health problem in both developed and developing countries. Rickets among infants has reemerged. Low levels of vitamin D are associated with increased risk and mortality from cancer. At the same time, the beneficial effects of vitamin D on a host of conditions have recently been discovered. F

### Click'd

Allie Navarro can't wait to show her best friends the app she built at CodeGirls summer camp. Click'd pairs users based on common interests and sends them on a fun (and occasionally rule-breaking) scavenger hunt to find each other. And it's a hit. By the second day of school, everyone is talking about Click'd. Watching her app go viral is amazing. Leaderboards are filling up! Everyone's making new friends. And with all the data Allie is collecting, she has an even better shot at beating her archenemy, Nathan, at the upcoming youth coding competition. But when Allie discovers a glitch that threatens to expose everyone's secrets, she has to figure out how to make things right, even if that means sharing the computer lab with Nathan. Can Allie fix her app, stop it from doing any more damage, and win back the friends it hurt-all before she steps on stage to present Click'd to the judges? New York Times best-selling author Tamara Ireland Stone combines friendship, coding, and lots of popcorn in her fun and empowering middle-grade debut.

## **D-Modules, Perverse Sheaves, and Representation Theory**

D-modules continues to be an active area of stimulating research in such mathematical areas as algebraic, analysis, differential equations, and representation theory. Key to D-modules, Perverse Sheaves, and Representation Theory is the authors' essential algebraic-analytic approach to the theory, which connects D-modules to representation theory and other areas of mathematics. To further aid the reader, and to make the work as self-contained as possible, appendices are provided as background for the theory of derived categories and algebraic varieties. The book is intended to serve graduate students in a classroom setting and as self-study for researchers in algebraic geometry, representation theory.

## **Model Rules of Professional Conduct**

The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

## **Dessins d'Enfants on Riemann Surfaces**

This volume provides an introduction to dessins d'enfants and embeddings of bipartite graphs in compact Riemann surfaces. The first part of the book presents basic material, guiding the reader through the current field of research. A key point of the second part is the interplay between the automorphism groups of dessins and their Riemann surfaces, and the action of the absolute Galois group on dessins and their algebraic curves. It concludes by showing the links between the theory of dessins and other areas of arithmetic and geometry, such as the abc conjecture, complex multiplication and Beauville surfaces. Dessins d'Enfants on Riemann Surfaces will appeal to graduate students and all mathematicians interested in maps, hypermaps, Riemann surfaces, geometric group actions, and arithmetic.

## **Vitamin D in Clinical Medicine**

Vitamin D deficiency is prevalent today not only among the elderly but pervasively throughout all ages of life. This is due, in part, to systemic diseases that affect vitamin D metabolism, to changes in lifestyle, such as insufficient exposure to sunlight, and to increased use of sunscreen. Apart from the obvious effects of vitamin D deficiency on skeletal metabolism, the problem is assuming even greater significance because observational and interventional studies have linked vitamin D deficiency to cardiovascular disease, cancer, and diabetes. This book addresses a variety of important issues that have emerged from this fast-moving area of clinical medicine. The topics include assays of vitamin D and its binding protein, effects on aging and associated complications, primary and secondary states of altered parathyroid hormone secretion, vitamin D in the growing years of children and adolescents, nutritional requirements, and vitamin D as it relates to systemic disorders such as diabetes mellitus. Vitamin D in Clinical Medicine aims to offer new insights, in an evidence-based way, on important issues related to vitamin D. It is written for general practitioners and internists, as well as for endocrinologists, nutritionists, pulmonologists, cardiologists, and oncologists.

## **The Last Turtlemen of the Caribbean**

Illuminating the entangled histories of the people and commodities that circulated across the Atlantic, Sharika D. Crawford assesses the Caribbean as a waterscape where imperial and national governments vied to control the profitability of the sea. Crawford places the green and hawksbill sea turtles and the Caymanian turtlemen who hunted them at the center of this waterscape. The story of the humble turtle and its hunter, she

argues, came to play a significant role in shaping the maritime boundaries of the modern Caribbean. Crawford describes the colonial Caribbean as an Atlantic commons where all could compete to control the region's diverse peoples, lands, and waters and exploit the region's raw materials. Focusing on the nineteenth and twentieth centuries, Crawford traces and connects the expansion and decline of turtle hunting to matters of race, labor, political and economic change, and the natural environment. Like the turtles they chased, the boundary-flouting laborers exposed the limits of states' sovereignty for a time but ultimately they lost their livelihoods, having played a significant role in legislation delimiting maritime boundaries. Still, former turtlemen have found their deep knowledge valued today in efforts to protect sea turtles and recover the region's ecological sustainability.

## **Digital Humanities Pedagogy**

"The essays in this collection offer a timely intervention in digital humanities scholarship, bringing together established and emerging scholars from a variety of humanities disciplines across the world. The first section offers views on the practical realities of teaching digital humanities at undergraduate and graduate levels, presenting case studies and snapshots of the authors' experiences alongside models for future courses and reflections on pedagogical successes and failures. The next section proposes strategies for teaching foundational digital humanities methods across a variety of scholarly disciplines, and the book concludes with wider debates about the place of digital humanities in the academy, from the field's cultural assumptions and social obligations to its political visions." (4e de couverture).

## **Numerical Ecology with R**

This new edition of Numerical Ecology with R guides readers through an applied exploration of the major methods of multivariate data analysis, as seen through the eyes of three ecologists. It provides a bridge between a textbook of numerical ecology and the implementation of this discipline in the R language. The book begins by examining some exploratory approaches. It proceeds logically with the construction of the key building blocks of most methods, i.e. association measures and matrices, and then submits example data to three families of approaches: clustering, ordination and canonical ordination. The last two chapters make use of these methods to explore important and contemporary issues in ecology: the analysis of spatial structures and of community diversity. The aims of methods thus range from descriptive to explanatory and predictive and encompass a wide variety of approaches that should provide readers with an extensive toolbox that can address a wide palette of questions arising in contemporary multivariate ecological analysis. The second edition of this book features a complete revision to the R code and offers improved procedures and more diverse applications of the major methods. It also highlights important changes in the methods and expands upon topics such as multiple correspondence analysis, principal response curves and co-correspondence analysis. New features include the study of relationships between species traits and the environment, and community diversity analysis. This book is aimed at professional researchers, practitioners, graduate students and teachers in ecology, environmental science and engineering, and in related fields such as oceanography, molecular ecology, agriculture and soil science, who already have a background in general and multivariate statistics and wish to apply this knowledge to their data using the R language, as well as people willing to accompany their disciplinary learning with practical applications. People from other fields (e.g. geology, geography, paleoecology, phylogenetics, anthropology, the social and education sciences, etc.) may also benefit from the materials presented in this book. Users are invited to use this book as a teaching companion at the computer. All the necessary data files, the scripts used in the chapters, as well as extra R functions and packages written by the authors of the book, are available online (URL: <http://adn.biol.umontreal.ca/~numeralecology/numecolR/>).

## **Cauchy's Cours d'analyse**

In 1821, Augustin-Louis Cauchy (1789-1857) published a textbook, the Cours d'analyse, to accompany his course in analysis at the Ecole Polytechnique. It is one of the most influential mathematics books ever

written. Not only did Cauchy provide a workable definition of limits and a means to make them the basis of a rigorous theory of calculus, but he also revitalized the idea that all mathematics could be set on such rigorous foundations. Today, the quality of a work of mathematics is judged in part on the quality of its rigor, and this standard is largely due to the transformation brought about by Cauchy and the Cours d'analyse. For this translation, the authors have also added commentary, notes, references, and an index.

## **Analytic D-Modules and Applications**

The theory of hyperbolic groups has its starting point in a fundamental paper by M. Gromov, published in 1987. These are finitely generated groups that share important properties with negatively curved Riemannian manifolds. This monograph is intended to be an introduction to part of Gromov's theory, giving basic definitions, some of the most important examples, various properties of hyperbolic groups, and an application to the construction of infinite torsion groups. The main theme is the relevance of geometric ideas to the understanding of finitely generated groups. In addition to chapters written by the editors, contributions by W. Ballmann, A. Haefliger, E. Salem, R. Strebel, and M. Troyanov are also included. The book will be particularly useful to researchers in combinatorial group theory, Riemannian geometry, and theoretical physics, as well as post-graduate students interested in these fields.

## **Sur les Groupes Hyperboliques d'après Mikhael Gromov**

An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance, marketing, and astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, deep learning, survival analysis, multiple testing, and more. Color graphics and real-world examples are used to illustrate the methods presented. This book is targeted at statisticians and non-statisticians alike, who wish to use cutting-edge statistical learning techniques to analyze their data. Four of the authors co-wrote An Introduction to Statistical Learning, With Applications in R (ISLR), which has become a mainstay of undergraduate and graduate classrooms worldwide, as well as an important reference book for data scientists. One of the keys to its success was that each chapter contains a tutorial on implementing the analyses and methods presented in the R scientific computing environment. However, in recent years Python has become a popular language for data science, and there has been increasing demand for a Python-based alternative to ISLR. Hence, this book (ISLP) covers the same materials as ISLR but with labs implemented in Python. These labs will be useful both for Python novices, as well as experienced users.

## **An Introduction to Statistical Learning**

This book focuses on the fundamentals and recent advances in RGB-D imaging as well as covering a range of RGB-D applications. The topics covered include: data acquisition, data quality assessment, filling holes, 3D reconstruction, SLAM, multiple depth camera systems, segmentation, object detection, saliency detection, pose estimation, geometric modelling, fall detection, autonomous driving, motor rehabilitation therapy, people counting and cognitive service robots. The availability of cheap RGB-D sensors has led to an explosion over the last five years in the capture and application of colour plus depth data. The addition of depth data to regular RGB images vastly increases the range of applications, and has resulted in a demand for robust and real-time processing of RGB-D data. There remain many technical challenges, and RGB-D image processing is an ongoing research area. This book covers the full state of the art, and consists of a series of chapters by internationally renowned experts in the field. Each chapter is written so as to provide a detailed overview of that topic. RGB-D Image Analysis and Processing will enable both students and professional developers alike to quickly get up to speed with contemporary techniques, and apply RGB-D imaging in their own projects.

## Digital Principles and Design

Commissioned by a vampire ancient to recover the coffin containing the body of the demonic Gilzen, hated even by his own kind, D travels to a frightening mountain landscape perennially shrouded in snow. Within a castle piercing the mountainside, D discovers a group of knights tasked to protect Gilzen at any cost. It's time for D to use all the forces and powers at his command to prevent Gilzen's resurrection! This volume of the long-running series combines two novels and features eleven original illustrations by Final Fantasy designer Yoshitaka Amano.

## RGB-D Image Analysis and Processing

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## Rehabilitation R & D Progress Reports

On an isolated island, vampire Nobility run a mysterious laboratory, continuously pumping out a white mist which compels the inhabitants of a nearby fishing village to become the vampire's slaves! When the village tries to retaliate, their fighters never return. The vampire hunter known only as D has been sighted on the island, but how did he come to be there, and whose side is he on, and will any mortals survive the brewing conflict? This twenty-fifth volume features seven new illustrations by Final Fantasy designer Yoshitaka Amano.

## R & D Activities of Local Governments

This is a photographic reprint of one of the great works in the history of Probability, the 2nd, revised and augmented edition published in 1713. The text is in French.

## Harmonia Sacra ... Book ii. The 2d Edition very much Enlarg'd and Corrected; Also Three Excellent Anthems, never before Printed, by Mr. Croft ... Dr. Blow, and Mr. J. Clark, etc

'This is a marvellous book. The research is very thorough and it will answer all my questions.' – RICHARD WILLIS, Normandy veteran, first lieutenant on LCT 898 on D-Day 'Brings to life ... the planning and execution of the largest amphibious landing which the world has ever seen ... My grandfather... would have been most impressed by this detailed research.' – CAPTAIN WILL RAMSAY, grandson of Admiral Sir Bertram Ramsay, Allied Naval Commander, Expeditionary Force D-Day, one of the most decisive moments of the Second World War, could not have happened without thousands of landing craft. Yet their role, and that of their crews, has often been overlooked. During a combined operation that involved aerial and naval assaults, as well as amphibious landings on a vast scale, more than 132,000 Allied troops landed on the Normandy beaches on 6 June 1944. Through their efforts, the tide of the war turned for the final time to favour the Allies. There is no overstating the contribution of the landing craft and their crews on the first day of Operation Neptune, and yet it is often overlooked. In D-Day Landing Craft, historian Andrew Whitmarsh turns his attention to these vital vessels that ensured the operation's success. He describes events on each of the five Allied beaches on D-Day from the perspective of landing craft, landing ships and their crews. He examines why there were so many different types of landing craft and how they were built over several years in both the UK and North America, despite many competing war production requirements and operational demands. This closely researched and well-illustrated account is essential to anyone who wants to fully understand the course of D-Day, and the nature of Allied preparations for the campaign.

## National Patterns of R & D Resources; Funds and Personnel in the United States

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