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INIS Atomindex
Proceedings of the Gibbs Symposium
Rhodium Catalyzed Hydroformylation

KEIRA CRANE

Painleve Transcendents
American Mathematical Soc.
Surface EngineeringSpringer
Caron's Directory of the City of Louisville American Mathematical Soc.
In the last decade there have been numerous advances in the area of rhodium-catalyzed hydroformylation, such as highly selective catalysts of industrial importance, new insights into mechanisms of the reaction, very selective asymmetric catalysts, in situ characterization and application to organic synthesis. The views on hydroformylation which still prevail in the current textbooks have become obsolete in several respects. Therefore, it was felt timely to collect these advances in a book. The book contains a series of chapters discussing several rhodium systems arranged according to ligand type, including asymmetric ligands, a chapter on applications in organic chemistry, a chapter on modern processes and separations, and a chapter on catalyst preparation and laboratory techniques. This book concentrates on highlights, rather than a concise review mentioning all articles in just one line. The book aims at an audience of advanced students, experts in the field, and scientists from related fields. The didactic approach also makes it useful as a guide for an advanced course.
Ulrich's International Periodicals Directory
Frontiers Media SA
This book focuses specifically on bin and bulk parameterizations for the prediction of cloud and precipitation at various scales - the cloud scale, mesoscale, synoptic scale, and the global climate scale. It provides a background to the fundamental principles of parameterization physics, including processes involved in the production of clouds, ice particles, liquid water, snow aggregate, graupel and hail. It presents full derivations of the parameterizations, allowing readers to build parameterization packages, with varying levels of complexity based on information in the book. Architectures for a range of dynamical models are given, in which parameterizations form a significant tool for investigating large non-linear numerical systems. Model codes are available online at www.cambridge.org/9780521883382. Written for researchers and advanced students of cloud and precipitation microphysics, this book is also a valuable reference for all atmospheric scientists involved in models of numerical weather prediction.
ASM International
This volume, a joint publication with the American Institute of Physics, contains the proceedings of a symposium honoring the memory of Josiah Willard Gibbs, one of the giants of theoretical physics. Three articles provide perspectives on Gibbs, the man, and on the place his work occupies in the history of science. There are also contributions from leading scientists on statistical mechanics, thermodynamics, geophysics, number theory, general relativity, and economics.
Aws C3. 4m/c3. 4
Cambridge University Press
The peanut-shaped sternaspid polychaetes have been known since

1760 when Plancus named them as Mentula cucurbitacea marina. Sternaspids are common and abundant in soft bottoms. Some authors suggested that only one species should be recognized, whereas others regard a few species very widely distributed and variable depths. Delineating species was problematic; the ventro-caudal shield was disregarded or barely used for identifying species. In this contribution the ventral shield is evaluated and its diagnostic potential is confirmed. The revision of Sternaspis is based upon type or topotype materials. Sternaspid body, introvert hooks and shield show three distinct patterns: two genera have 7 abdominal segments and tapered introvert hooks, and one genus has 8 abdominal segments and spatulate introvert hooks. The ventro-caudal shield has 3 different patterns: stiff with ribs, and sometimes concentric lines, stiff with feebly-defined ribs but no concentric lines, and soft with firmly adhered sediment particles. Sternaspis is restricted to include species with 7 abdominal segments, falcate introvert hooks, and stiff shields, often exhibiting radial ribs, concentric lines or both. Two new genera incorporate the remaining species: Caulleryaspis has falcate introvert hooks, 7 abdominal segments, and soft shields with sediment particles firmly adhered on them. Petersenaspis has spatulate introvert hooks, 8 abdominal segments, and stiff shields with poorly-defined ribs but no concentric line. The geographic range of most species is smaller than previously indicated. Keys to genera and to all species are also included. The Official Catholic Directory for the Year of Our Lord ... Springer
Graduate students typically enter into courses on string theory having little to no familiarity with the mathematical background so crucial to the discipline. As such, this book, based on lecture notes, edited and expanded, from the graduate course taught by the author at SISSA and BIMSA, places particular emphasis on said mathematical background. The target audience for the book includes students of both theoretical physics and mathematics. This explains the book’s "strange" style: on the one hand, it is highly didactic and explicit, with a host of examples for the physicists, but, in addition, there are also almost 100 separate technical boxes, appendices, and starred sections, in which matters discussed in the main text are put into a broader mathematical perspective, while deeper and more rigorous points of view (particularly those from the modern era) are presented. The boxes also serve to further shore up the reader’s understanding of the underlying math. In writing this book, the author’s goal was not to achieve any sort of definitive conciseness, opting instead for clarity and "completeness". To this end, several arguments are presented more than once from different viewpoints and in varying contexts. *Freedom of Information Case List* Springer
This book presents state-of-the-art contributions from a number of leading experts that actively work worldwide in the rapidly growing, highly interdisciplinary, and fascinating fields of aperiodic optics and complex photonics. Edited

by Luca Dal Negro, a prominent researcher in these areas of optical science, the book covers the fundamental, computational, and experimental aspects of deterministic aperiodic structures, as well as numerous device and engineering applications to dense optical filters, nanoplasmonics photovoltaics and technologies, optical sensing, light sources, and nonlinear optics.

Science Citation Index

PenSoft Publishers LTD

Integral geometry deals with the problem of determining functions by their integrals over given families of sets. These integrals de?ne the corresponding integraltransformandoneo fthemainquestionsinintegr algeometryaskswhen this transform is injective. On the other hand, when we work with complex measures or forms, operators appear whose kernels are non-trivial but which describe important classes of functions. Most of the questions arising here relate, in one way or another, to the convolution equations. Some of the well known publications in this ?eld include the works by J. Radon, F. John, J. Delsarte, L. Zalcman, C. A. Berenstein, M. L. Agranovsky and recent monographs by L. H¨ ormander and S. Helgason. Until recently research in this area was carried out mostly using the technique of the Fourier transform and corresponding methods of complex analysis. In recent years the present author has worked out an essentially di?erent methodology based on the description of various function spaces in terms of - pansions in special functions, which has enabled him to establish best possible results in several well known problems.

Performance Standards for Antimicrobial Susceptibility Testing

Surface Engineering

Annotation Examines the factors that contribute to overall steel deformation problems. The 27 articles address the effect of materials and processing, the measurement and prediction of residual stress and distortion, and residual stress formation in the shaping of materials, during hardening processes, and during manufacturing processes. Some of the topics are the stability and relaxation behavior of macro and micro residual stresses, stress determination in coatings, the effects of process equipment design, the application of metallo-thermo-mechanic to quenching, inducing compressive stresses through controlled shot peening, and the origin and assessment of residual stresses during welding and brazing. Annotation c. Book News, Inc., Portland, OR (booknews.com)

The Royal Kalendar

Princeton University Press

At the turn of the twentieth century, the French mathematician Paul Painleve and his students classified second order nonlinear ordinary differential equations with the property that the location of possible branch points and essential singularities of their solutions does not depend on initial conditions. It turned out that there are only six such equations (up to natural equivalence), which later became known as Painleve I-VI. Although these equations were initially obtainedanswering a strictly mathematical question, they appeared later in an astonishing (and growing) range of applications, including, e.g., statistical physics, fluid mechanics, random

matrices, and orthogonal polynomials. Actually, it is now becoming clear that the Painleve transcendents (i.e., the solutionsof the Painleve equations) play the same role in nonlinear mathematical physics that the classical special functions, such as Airy and Bessel functions, play in linear physics. The explicit formulas relating the asymptotic behaviour of the classical special functions at different critical points, play a crucial role in the applications of these functions. It is shown in this book, that even though the six Painleve equations are nonlinear, it is still possible, using a new technique called theRiemann-Hilbert formalism, to obtain analogous explicit formulas for the Painleve transcendents. This striking fact, apparently unknown to Painleve and his contemporaries, is the key ingredient for the remarkable applicability of these ``nonlinear special functions''. The book describes in detail theRiemann-Hilbert method and emphasizes its close connection to classical monodromy theory of linear equations as well as to modern theory of integrable systems. In addition, the book contains an ample collection of material concerning the asymptotics of the Painleve functions and their various applications, which makes it a good reference source for everyone working in the theory and applications of Painleve equations and related areas.

Optics of Aperiodic Structures Springer Science & Business Media This indispensable handbook provides comprehensive coverage of the current state-of-the-art in inorganic, organic, and composite aerogels – from synthesis and characterization to cutting-edge applications and their potential market impact. Built upon Springer’s successful Aerogels Handbook published in 2011, this handbook features extensive revisions and timely updates, reflecting the changes in this fast-growing field. Aerogels are the lightest solids known to man. Up to 1000 times lighter than glass and with a density only four times that of air, they possess extraordinarily high thermal, electrical, and acoustic insulation properties, and boast numerous entries in Guinness World Records. Originally based on silica, R&D efforts have extended this class of materials to incorporate non-silicate inorganic oxides, natural and synthetic organic polymers, carbon, metal, and ceramic materials. Composite systems involving polymer-crosslinked aerogels and interpenetrating hybrid networks have been developed and exhibit remarkable mechanical strength and flexibility. Even more exotic aerogels based on clays, chalcogenides, phosphides, quantum dots, and biopolymers such as chitosan are opening new applications for the construction, transportation, energy, defense and healthcare industries. Applications in electronics, chemistry, mechanics, engineering, energy production and storage, sensors, medicine, nanotechnology, military and aerospace, oil and gas recovery, thermal insulation, and household uses are being developed. Readers of this fully updated and expanded edition will find an exhaustive source for all aerogel materials known today, their fabrication, upscaling aspects, physical and chemical

properties, and the most recent advances towards applications and commercial use. This key reference is essential reading for a combined audience of graduate students, academic researchers, and industry professionals.

Catalog of American National Standards CRC Press

This collection presents new and interesting applications of Poisson geometry to some fundamental well-known problems in mathematical physics. The methods used by the authors include, in addition to advanced Poisson geometry, unexpected algebras with non-Lie commutation relations, nontrivial (quantum) Kahlerian structures of hypergeometric type, dynamical systems theory, semiclassical asymptotics, etc.

Catalogue of the American library of ... George Brinley [by J.H. Trumbull]. (Special ed.). Springer Nature

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Billboard Springer Nature

The Lloyd's Register of Shipping records the details of merchant vessels over 100 gross tonnes, which are self-propelled and sea-going, regardless of classification. Before the time, only those vessels classed by Lloyd's Register were listed. Vessels are listed alphabetically by their current name.

Knots, Groups and 3-Manifolds (AM-84), Volume 84 American Mathematical Soc.

Dynamical Invariants, Adiabatic Approximation & the Geometric Phase

Handbook of Residual Stress and Deformation of Steel Lloyd's Register

In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital, events, brand, content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital and mobile entertainment issues and trends.

The British Imperial Calendar

This text provides a comprehensive, state – of – the art review of this new and emerging field, as the number of men who suffer from post-prostatectomy incontinence increases by greater than 10,000 per year. How to evaluate and manage this devastating disorder has become a necessary part of nearly every urologic practice. This book serves a valuable resource for physicians with an interest in managing patients with post-prostatectomy incontinence. In addition, treatment includes algorithms and suggested office evaluation that will help guide conservative management that is appropriate for most patients. The text provides insight into the history of male incontinence surgery, as well as the current surgical techniques for the operative management of post-prostatectomy incontinence in those who fail conservative management. This text reviews current data regarding surgical outcomes for the most common and newly developed incontinence procedures, as well as step-by-step descriptions of the key surgical steps necessary for success. All chapters are written by world renowned experts in this field and include the most up to date clinical information.

Innovative Approaches to Coral Reef Science by Early Career Researchers

"This document provides

updated tables for the Clinical and Laboratory Standards Institute antimicrobial susceptibility testing standards M02-A12, M07-A10, and M11-A8"--Cover.

Lloyd's Register of Shipping 1915 Sailing Vessels

Vols. for 1964- have guides and journal lists.

Mesoscale Analysis and Forecasting

There is a sympathy of ideas among the fields of knot theory, infinite discrete group theory, and the topology of 3-manifolds. This book contains fifteen papers in which new results are proved in all three of these fields. These papers are dedicated to the memory of Ralph H. Fox, one of the world's leading topologists, by colleagues, former students, and friends. In knot theory, papers have been contributed by Goldsmith, Levine, Lomonaco, Perko, Trotter, and Whitten. Of these several are devoted to the study of branched covering spaces over knots and links, while others utilize the braid groups of Artin. Cossey and Smythe, Stallings, and Strasser address themselves to group theory. In his contribution Stallings describes the calculation of the groups In/In+1 where I is the augmentation ideal in a group ring RG. As a consequence, one has for each k an example of a k-generator l-relator group with no free homomorphs. In the third part, papers by Birman, Cappell, Milnor, Montesinos, Papakyriakopoulos, and Shalen comprise the treatment of 3-manifolds. Milnor gives, besides important new results, an exposition of certain aspects of our current knowledge regarding the 3- dimensional Brieskorn manifolds.