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Quantum Computation and Quantum Information - Michael A. Nielsen 2010-12-09

One of the most cited books in physics of all time, Quantum Computation and Quantum Information remains the best textbook in this exciting field of science. This 10th anniversary edition includes an introduction from the authors setting the work in context. This comprehensive textbook describes such remarkable effects as fast quantum algorithms, quantum teleportation, quantum cryptography and quantum error-correction. Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is, how it can be used to solve problems faster than 'classical' computers and its real-world implementation. It concludes with an in-depth treatment of quantum information. Containing a wealth of figures and exercises, this well-known textbook is ideal for courses on the subject, and will interest beginning graduate students and researchers in physics, computer science, mathematics, and electrical engineering.

March's Advanced Organic Chemistry - Michael B. Smith 2007-01-29

The Sixth Edition of a classic in organic chemistry continues its tradition of excellence. Now in its sixth edition, March's Advanced Organic Chemistry remains the gold standard in organic chemistry. Throughout its six editions, students and chemists from around the world have relied on it as an essential resource for planning and executing synthetic reactions. The Sixth Edition brings the text completely current with the most recent organic reactions. In addition, the references have been updated to enable readers to find the latest primary and review literature with ease. New features include: More than 25,000 references to the literature to facilitate further research. Revised mechanisms, where required, that explain concepts in clear modern terms. Revisions and updates to each chapter to bring them all fully up to date with the latest reactions and discoveries. A revised Appendix B to facilitate correlating chapter sections with synthetic transformations.

Role of Lipids in Virus Assembly - Jamil S. Saad 2015-07-28

RNA enveloped viruses comprise several families belonging to plus and minus strand RNA viruses, such as retroviruses, flavoviruses and orthomyxoviruses. Viruses utilize cellular lipids during critical steps of replication like entry, assembly and egress. Growing evidence indicate important roles for lipids and lipid nanodomains in virus assembly. This special topic covers key aspects of virus-membrane interactions during assembly and egress, especially those of retroviruses and Ebola virus (EBOV). Virus assembly and release involve specific and nonspecific interactions between viral proteins and membrane compartments. Retroviral Gag proteins assemble predominantly on the PM. Despite the great progress in identifying the factors that modulate retroviral Gag assembly on the PM, there are still gaps in our understanding of precise mechanisms of Gag-membrane interactions. Studies over the last two decades have focused on the mechanisms by which other retroviral Gag proteins interact with membranes during assembly. These include human immunodeficiency virus (HIV), Rous sarcoma virus (RSV), equine infectious anemia virus (EIAV), Mason-Pfizer monkey virus (M-PMV), murine leukemia virus (MLV), and human T-lymphotropic virus type (HTLV-1). Additionally, assembly of filoviruses such as EBOV also occurs on the inner leaflet of the PM. The articles published under this special topic highlight

the latest understanding of the role of membrane lipids during virus assembly, egress and release.

Introduction to Computational Chemistry - Frank Jensen 2016-11-28

Introduction to Computational Chemistry 3rd Edition provides a comprehensive account of the fundamental principles underlying different computational methods. Fully revised and updated throughout to reflect important method developments and improvements since publication of the previous edition, this timely update includes the following significant revisions and new topics: Polarizable force fields Tight-binding DFT More extensive DFT functionals, excited states and time dependent molecular properties Accelerated Molecular Dynamics methods Tensor decomposition methods Cluster analysis Reduced scaling and reduced prefactor methods Additional information is available at: www.wiley.com/go/jensen/computationalchemistry3

Business and Management for the IB Diploma - Peter Stimpson 2015

Synthetic Methods in Drug Discovery - David C Blakemore 2016-07-15

Synthetic Methods in Drug Discovery Volume 1 focusses on the hugely important area of transition metal mediated methods used in industry. Current methods of importance such as the Suzuki-Miyaura coupling, Buchwald-Hartwig couplings and CH activation are discussed. In addition, exciting emerging areas such as decarboxylative coupling, and the uses of iron and nickel in coupling reactions are also covered. This book provides both academic and industrial perspectives on some key reactions giving the reader an excellent overview of the techniques used in modern synthesis. Reaction types are conveniently framed in the context of their value to industry and the challenges and limitations of methodologies are discussed with relevant illustrative examples. Edited and authored by leading scientists from both academia and industry, this book will be a valuable reference for all chemists involved in drug discovery as well as postgraduate students in medicinal chemistry.

Survive the IB! - Nathan Taber 2011

Neuroscience - Dale Purves 2004-01-01

Neuroscience is a comprehensive textbook created primarily for medical and premedical students; it emphasises the structure of the nervous system, the correlation of structure and function, and the structure/function relationships particularly pertinent to the practice of medicine. Although not primarily about pathology, the book includes the basis of a variety of neurological disorders. It could serve equally well as a text for undergraduate neuroscience courses in which many of the students are premeds. Being both comprehensive and authoritative, it is also appropriate for graduate and professional use. The new edition offers a host of new features including a new art program and the completely revised Sylvius for Neuroscience: Visual Glossary of Human Neuroanatomy, an interactive CD-ROM reference guide to the human nervous system. Major changes to the new edition also include: additional neuroanatomical content, including two appendices-(1) The Brainstem and Cranial Nerves and (2) Vascular Supply, the Meninges, and the Ventricular System; and updated and new boxes on neurological and

psychiatric diseases.

Higher Level Chemistry - Catrin Brown 2009

Provides complete coverage of the syllabus requirements. This book offers information on Chemistry for IB Diploma course.

Volcanic Lakes - Dmitri Rouwet 2015-03-02

This book aims to give an overview on the present state of volcanic lake research, covering topics such as volcano monitoring, the chemistry, dynamics and degassing of acidic crater lakes, mass-energy-chemical-isotopic balance approaches, limnology and degassing of Nyos-type lakes, the impact on the human and natural environment, the eruption products and impact of crater lake breaching eruptions, numerical modeling of gas clouds and lake eruptions, thermo-hydro-mechanical and deformation modeling, CO₂ fluxes from lakes, volcanic lakes observed from space, biological activity, continuous monitoring techniques, and some aspects more. We hope to offer an updated manual on volcanic lake research, providing classic research methods, and point towards a more high-tech approach of future volcanic lake research and continuous monitoring.

Duncan and Prasse's Veterinary Laboratory Medicine - Kenneth S. Latimer 2011-11-16

Now in full color throughout, Duncan and Prasse's Veterinary Laboratory Medicine: Clinical Pathology, Fifth Edition offers a comprehensive overview of hematology, hemostasis, clinical chemistry, urinalysis, cytology, and reference intervals in a highly accessible outline format. With information on all major domestic species, the text is designed for the reader to quickly find answers to clinical questions. Taking a problem-solving approach to the interpretation of laboratory data, this book includes clinical cases to illustrate the concepts of laboratory data interpretation, with tables and key words to aid readers in locating and applying information. The fifth edition has been fully revised to reflect the latest knowledge, diagnostic methods, and practices in veterinary laboratory medicine. A companion website provides the images in PowerPoint and references linked to PubMed at www.wiley.com/go/latimer. Duncan and Prasse's Veterinary Laboratory Medicine is an excellent quick reference for practicing veterinarians, veterinary students, clinical interns and residents, and pathology residents.

School, Family, and Community Partnerships - Joyce L. Epstein 2018-07-19

Strengthen family and community engagement to promote equity and increase student success! When schools, families, and communities collaborate and share responsibility for students' education, more students succeed in school. Based on 30 years of research and fieldwork, this fourth edition of a bestseller provides tools and guidelines to use to develop more effective and equitable programs of family and community engagement. Written by a team of well-known experts, this foundational text demonstrates a proven approach to implement and sustain inclusive, goal-oriented programs. Readers will find: Many examples and vignettes Rubrics and checklists for implementation of plans CD-ROM complete with slides and notes for workshop presentations

ISCED 2011 Operational Manual Guidelines for Classifying National Education Programmes and Related Qualifications - OECD 2015-03-20

This operational manual is designed to assist in the classification and mapping of national education systems according to ISCED 2011.

Standard Level Chemistry - Catrin Brown 2008

Provides complete coverage of the syllabus requirements. This book offers information on Chemistry for IB Diploma course.

Developing Solid Oral Dosage Forms - Yihong Qiu 2016-11-08

Developing Solid Oral Dosage Forms: Pharmaceutical Theory and Practice, Second Edition illustrates how to develop high-quality, safe, and effective pharmaceutical products by discussing the latest techniques, tools, and scientific advances in preformulation investigation, formulation, process design, characterization, scale-up, and

production operations. This book covers the essential principles of physical pharmacy, biopharmaceutics, and industrial pharmacy, and their application to the research and development process of oral dosage forms. Chapters have been added, combined, deleted, and completely revised as necessary to produce a comprehensive, well-organized, valuable reference for industry professionals and academics engaged in all aspects of the development process. New and important topics include spray drying, amorphous solid dispersion using hot-melt extrusion, modeling and simulation, bioequivalence of complex modified-released dosage forms, biowaivers, and much more. Written and edited by an international team of leading experts with experience and knowledge across industry, academia, and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon, predictive biopharmaceutics and pharmacokinetics, the development of formulations for drug discovery support, and much more Presents new case studies throughout, and a section completely devoted to regulatory aspects, including global product regulation and international perspectives

Chemistry SL - Alexandra Juniper 2011-01

A guide for students preparing for exams in chemistry standard level for the IB Diploma Programme.

Ebook: The Science of Psychology: An Appreciative View - King 2016-09-16

Ebook: The Science of Psychology: An Appreciative View

Thermal Energy - Yatish T. Shah 2018-01-12

The book details sources of thermal energy, methods of capture, and applications. It describes the basics of thermal energy, including measuring thermal energy, laws of thermodynamics that govern its use and transformation, modes of thermal energy, conventional processes, devices and materials, and the methods by which it is transferred. It covers 8 sources of thermal energy: combustion, fusion (solar) fission (nuclear), geothermal, microwave, plasma, waste heat, and thermal energy storage. In each case, the methods of production and capture and its uses are described in detail. It also discusses novel processes and devices used to improve transfer and transformation processes.

IB Physics Course Book - Michael Bowen-Jones 2014-01

The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.

Chemistry for the IB Diploma - Geoff Neuss 2001

This concise guide provides the content needed for the Chemistry IB diploma at both Standard and Higher Level. It follows the structure of the IB Programme exactly and includes all the options. Each topic is presented on its own page for clarity, Higher Level material is clearly indicated, and there are plenty of practice questions. The text is written with an awareness that English might not be the reader's first language

Designing and Conducting Mixed Methods Research - John W. Creswell 2017-08-31

Combining the latest thinking in the field with practical, step-by-step guidance, the Third Edition of John W. Creswell and Vicki L. Plano Clark's Designing and Conducting Mixed Methods Research now covers seven mixed methods designs with accompanying journal articles illustrating each design. The authors walk readers through the entire research process, and present updated examples from published mixed methods studies drawn from multiple disciplines. In addition, this new edition includes information about the dynamic and evolving nature of the field of mixed methods research, four additional methodological approaches, and coverage of new directions in mixed methods.

Introduction to Representation Theory - Pavel I. Etingof 2011

Very roughly speaking, representation theory studies symmetry in linear spaces. It is a beautiful mathematical

subject which has many applications, ranging from number theory and combinatorics to geometry, probability theory, quantum mechanics, and quantum field theory. The goal of this book is to give a "holistic" introduction to representation theory, presenting it as a unified subject which studies representations of associative algebras and treating the representation theories of groups, Lie algebras, and quivers as special cases. Using this approach, the book covers a number of standard topics in the representation theories of these structures. Theoretical material in the book is supplemented by many problems and exercises which touch upon a lot of additional topics; the more difficult exercises are provided with hints. The book is designed as a textbook for advanced undergraduate and beginning graduate students. It should be accessible to students with a strong background in linear algebra and a basic knowledge of abstract algebra.

Advanced Engineering Mathematics - Michael Greenberg 2013-09-20

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

Enhancing Academic Research and Higher Education With Knowledge Management Principles - Zyngier, Suzanne 2021-01-15

Knowledge management principles, strategies, models, tools, and techniques have been proven in government, business, and industry. More recently, knowledge management has emerged as an essential enabler for the successful pursuit of scholarly activities in higher education. Knowledge management has significant contributions to make in capturing, storing, processing, and disseminating knowledge between and across these stakeholder entities and their processes to better support these interrelated processes and activities. Given the impetus provided by the United Nations Global Knowledge Economy Policy, institutions worldwide are actively pursuing the use of knowledge management in all facets of social and economic development. The importance of knowledge management research and application in academia is a critical element of this multifaceted endeavor. *Enhancing Academic Research and Higher Education With Knowledge Management Principles* is a compendium of cutting-edge research on the use of knowledge management in higher education and provides original, theoretical, and application-oriented research within this domain. The book will also provide insights on the management of expertise, knowledge, information, and organizational development in different types of work communities and environments. By including research on global perspectives, the implementation of knowledge management at universities, current trends in the field, and the results, this book is a valuable reference work for professionals and researchers working in the field of information and knowledge management in various disciplines, and academics, analysts, developers, students, technologists, education consultants, higher education administrators, academicians, stakeholders, and practitioners seeking to learn, improve, and expand their theoretical and applied knowledge of knowledge management tools and techniques, models, processes, and systems in higher education.

Physics for the IB Diploma Exam Preparation Guide - K. A. Tsokos 2016-03-24

Physics for the IB Diploma, Sixth edition, covers in full the requirements of the IB syllabus for Physics for first examination in 2016. This Exam Preparation Guide contains up-to-date material matching the 2016 IB Diploma syllabus and offers support for students as they prepare for their IB Diploma Physics exams. The book is packed full of Model Answers, Annotated Exemplar Answers and Hints to help students hone their revision and exam technique and avoid common mistakes. These features have been specifically designed to help students apply their

knowledge in exams. The book also contains lots of questions for students to use to track their progress. The book has been written in an engaging and student friendly tone making it perfect for international learners.

Biology for the IB Diploma Coursebook - Brenda Walpole 2011-03-24

This text offers an in-depth analysis of all topics covered in the IB syllabus, preparing students with the skills needed to succeed in the examination. Features include: clearly stated learning objectives at the start of each section; quick questions throughout each chapter and accessible language for students at all levels.

Bad Bugs in the XXIst Century: Resistance Mediated by Multi-Drug Efflux Pumps in Gram-Negative Bacteria - Attilio Vittorio Vargiu 2016-08-12

The discovery of antibiotics represented a key milestone in the history of medicine. However, with the rise of these life-saving drugs came the awareness that bacteria deploy defence mechanisms to resist these antibiotics, and they are good at it. Today, we appear at a crossroads between discovery of new potent drugs and omni-resistant superbugs. Moreover, the misuse of antibiotics in different industries has increased the rate of resistance development by providing permanent selective pressure and, subsequently, enrichment of multidrug resistant pathogens. As a result, antimicrobial resistance has now become an urgent threat to public health worldwide (<http://www.who.int/drugresistance/documents/surveillancereport/en/>). The development of multidrug resistance (MDR) in an increasing number of pathogens, including *Pseudomonas*, *Acinetobacter*, *Klebsiella*, *Salmonella*, *Burkholderia*, and other Gram-negative bacteria is a most severe issue. Membrane efflux pump complexes of the Resistance-Nodulation-cell Division (RND) superfamily play a key role in the development of MDR in these bacteria. RND pumps, together with other transporters, contribute to intrinsic and acquired resistance to most, if not all, of the antimicrobial compounds available in our drug arsenal. Given the enormous drug polyspecificity of MDR efflux pumps, studies on their mechanism of action are extremely challenging, and this has negatively impacted both the development of new antibiotics that are able to evade these efflux pumps as well as the design of pump inhibitors. The collection of articles in this eBook, published as a Research Topic in *Frontiers in Microbiology*, section of Antimicrobials, Resistance, and Chemotherapy, aims to update the reader about the latest advances on the structure and function of RND efflux transporters, their roles in the overall multidrug resistance phenotype of Gram-negative pathogens, and on strategies to inhibit their activities. A deeper understanding of the mechanisms by which RND efflux pumps, alone or synergistically with other efflux pumps, are able to limit the concentration of antimicrobial compounds inside the bacterial cell, may pave the way for new, more directed, inhibitor and antibiotic design to ultimately overcome antimicrobial resistance by Gram-negatives.

Protein Misfolding - Rossen Donev 2020-01-13

Protein Misfolding, Volume 118, covers the wide spectrum of diseases and disorders that are attributed to protein misfolding, including degenerative and neurodegenerative, cardiovascular, renal, glaucoma, cancer, cystic fibrosis, Gaucher's disease, and many others. Specific chapters cover Mass spectrometric approaches for profiling protein folding and stability, Biomembranes, a key player in protein misfolding, how Genetic and environmental factors interact to disrupt proteostasis and trigger protein misfolding diseases, Formation of oligomers and large amorphous aggregates by intrinsically disordered proteins, Protein misfolding in ER stress with applications to cardiovascular and renal disease, and much more. Integrates methods for studying protein misfolding, factors that trigger this process and its role in a wide spectrum of diseases and disorders Contains timely chapters written by well-renowned authorities in their field Provides data that is well supported by a number of high quality illustrations, figures and tables, and targets a very wide audience of specialists, researchers and students

Sustainable Value Creation in the Fine and Speciality Chemicals Industry - R. Rajagopal 2014-06-12

The global fine and speciality chemicals industry is a vitalsegment within the chemical value chain, catering to a multitude of societal and industrial needs. Regulatory, sustainability and consumer forces have been

constantly shaping the business fundamentals of this industry. Developing value creation strategies, which embed economic, environmental and social sustainability components, will need a comprehensive assessment of business, scientific and technological challenges facing the industry. Sustainable Value Creation in the Fine and Speciality Chemicals Industry assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry. It discusses innovative strategies in feedstocks, R&D, technology, manufacturing, resource management and the supply chain as well as the significance of the bio-based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry. Topics covered include:

- Transformation in the fine and speciality chemicals business
- Sustainable management: evolution, transitions and tools
- Research and technology directions
- Resource optimization strategies
- Bio-based chemicals, specialities and polymers
- Sustainable practices in the fine and speciality chemicals industry
- Sustainable value creation strategies

Sustainable Value Creation in the Fine and Speciality Chemicals Industry presents a comprehensive overview of strategic options for sustainability management in the global fine and speciality chemicals industry. It will be a valuable resource for chemists and chemical engineers involved in the design and development of economically, environmentally and socially sustainable practices for the future.

SI Chemical Data - G. H. Aylward 1974

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 - New York Public Library. Research Libraries 1979

Clinical Case Studies for the Family Nurse Practitioner - Leslie Neal-Boylan 2011-11-28

Clinical Case Studies for the Family Nurse Practitioner is a key resource for advanced practice nurses and graduate students seeking to test their skills in assessing, diagnosing, and managing cases in family and primary care. Composed of more than 70 cases ranging from common to unique, the book compiles years of experience from experts in the field. It is organized chronologically, presenting cases from neonatal to geriatric care in a standard approach built on the SOAP format. This includes differential diagnosis and a series of critical thinking questions ideal for self-assessment or classroom use.

Chemistry for the IB Diploma Coursebook with Free Online Material - Steve Owen 2014-03-13

Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. The Second edition of this well-received Coursebook is fully updated for the IB Chemistry syllabus for first examination in 2016, comprehensively covering all requirements. Get the best coverage of the syllabus with clear assessment statements, and links to Theory of Knowledge, International-mindedness and Nature of Science themes. Exam preparation is supported with plenty of sample exam questions, online test questions and exam tips. Chapters covering the Options and Nature of Science, assessment guidance and answers to questions are included in the additional online material available with the book.

The Water Footprint Assessment Manual - Maite M. Aldaya 2012-08-21

People use lots of water for drinking, cooking and washing, but significantly more for producing things such as food, paper and cotton clothes. The water footprint is an indicator of water use that looks at both direct and indirect water use of a consumer or producer. Indirect use refers to the 'virtual water' embedded in tradable goods and commodities, such as cereals, sugar or cotton. The water footprint of an individual, community or business is defined as the total volume of freshwater that is used to produce the goods and services consumed by the individual or community or produced by the business. This book offers a complete and up-to-date overview of the global standard on water footprint assessment as developed by the Water Footprint Network. More specifically it:

- o Provides a comprehensive set of methods for water footprint assessment
- o Shows how water footprints can be

- o Calculated for individual processes and products, as well as for consumers, nations and businesses
- o Contains detailed worked examples of how to calculate green, blue and grey water footprints
- o Describes how to assess the sustainability of the aggregated water footprint within a river basin or the water footprint of a specific product
- o Includes an extensive library of possible measures that can contribute to water footprint reduction

Advanced Organic Chemistry - Francis A. Carey 2007-06-27

The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.

Principles of Inorganic Chemistry - Brian W. Pfennig 2015-03-30

Aimed at senior undergraduates and first-year graduate students, this book offers a principles-based approach to inorganic chemistry that, unlike other texts, uses chemical applications of group theory and molecular orbital theory throughout as an underlying framework. This highly physical approach allows students to derive the greatest benefit of topics such as molecular orbital acid-base theory, band theory of solids, and inorganic photochemistry, to name a few. Takes a principles-based, group and molecular orbital theory approach to inorganic chemistry. The first inorganic chemistry textbook to provide a thorough treatment of group theory, a topic usually relegated to only one or two chapters of texts, giving it only a cursory overview. Covers atomic and molecular term symbols, symmetry coordinates in vibrational spectroscopy using the projection operator method, polyatomic MO theory, band theory, and Tanabe-Sugano diagrams. Includes a heavy dose of group theory in the primary inorganic textbook, most of the pedagogical benefits of integration and reinforcement of this material in the treatment of other topics, such as frontier MO acid-base theory, band theory of solids, inorganic photochemistry, the Jahn-Teller effect, and Wade's rules are fully realized. Very physical in nature compared to other textbooks in the field, taking the time to go through mathematical derivations and to compare and contrast different theories of bonding in order to allow for a more rigorous treatment of their application to molecular structure, bonding, and spectroscopy. Informal and engaging writing style; worked examples throughout the text; unanswered problems in every chapter; contains a generous use of informative, colorful illustrations.

Biology for the IB Diploma - Andrew Allott 2001

This concise guide provides all the content you need for the IB Diploma in Biology at both Standard and Higher Level.* Follows the structure of the IB Programme exactly and include all the options* Each topic is presented on its own page for clarity* Standard and Higher Level material clearly indicated* Plenty of practice questions* Written with an awareness that English may not be the reader's first language

Electrochemical Methods: Fundamentals and Applications, 2nd Edition - Allen J. Bard 2000-12-04

A broad and comprehensive survey of the fundamentals for electrochemical methods now in widespread use. This book is meant as a textbook, and can also be used for self-study as well as for courses at the senior undergraduate and beginning graduate levels. Knowledge of physical chemistry is assumed, but the discussions start at an elementary level and develop upward. This revision comes twenty years after publication of the first edition, and provides valuable new and updated coverage.

Physics - Chris Hamper 2008-09-01

Providing complete coverage of the latest syllabus requirements and all the SL options, this book is written specifically for Standard Level students by two highly experienced IB Physics teachers and workshop leaders.

Introducing the IB Diploma Programme - Marc Abrioux 2013-02-14

Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time, effort and money in order to become authorised. This manual is a resource for schools already offering the diploma, as well as for prospective diploma schools.