

# **A Double Resolution Solution**



## **A Double Resolution Solution: Tackling Complex Problems with Dual Approaches**

Are you facing a problem that seems insurmountable? Do single solutions feel inadequate, leaving you frustrated and stuck in a rut? This post explores the power of "a double resolution solution," a strategic approach that leverages two distinct methods to tackle complex issues more effectively. We'll delve into the principles behind this strategy, provide practical examples, and show you how to implement it in your own life and work. This isn't about simply trying two things at once; it's about carefully selecting complementary approaches that synergistically achieve a superior outcome.

### **Understanding the Power of Dual Approaches**

The concept of a "double resolution solution" rests on the principle that multifaceted problems rarely yield to single-pronged attacks. Often, the complexity demands a multi-faceted response. This strategy doesn't imply haphazard attempts; it requires careful consideration and strategic selection of two distinct methods, each addressing a different aspect of the problem. The key is choosing methods that complement each other, creating a synergistic effect that surpasses what either could achieve individually.

#### **#### Why Two Solutions are Better Than One**

**Increased Chances of Success:** By employing two distinct approaches, you significantly increase the probability of finding a solution. If one method fails, you still have a backup plan.

**Addressing Multiple Aspects:** Complex problems often have several contributing factors. A double resolution solution allows you to tackle these simultaneously, rather than sequentially.

**Enhanced Efficiency:** While seemingly doubling the effort, a well-chosen double resolution solution can lead to increased efficiency by addressing the core issues more comprehensively and quickly.

**Reduced Risk:** The dual approach mitigates risk associated with relying on a single strategy. If one method falters, the other can provide a safety net.

## Identifying Suitable Double Resolution Solutions

Applying this strategy effectively requires a structured approach:

### #### 1. Clearly Define the Problem:

Before seeking solutions, precisely define the problem. Break it down into its constituent parts. What are the core issues contributing to the problem? Identifying these underlying components is crucial for selecting appropriate methods.

### #### 2. Select Complementary Solutions:

This is the critical step. Choose two distinct methods that address different aspects of the problem. They should complement each other, rather than compete. For example, if the problem is low website traffic, one solution might be improving SEO (organic reach) and the other might be paid advertising (targeted reach). These are different approaches that work together, not against each other.

### #### 3. Implement and Monitor:

Implement both solutions concurrently, setting clear metrics to track their effectiveness. Regular monitoring allows for adjustments and optimization. If one method proves less effective, you can adjust the strategy without abandoning the overall approach.

### #### 4. Analyze and Refine:

Once you've implemented the solutions, analyze the results. Which method proved more effective? What adjustments can be made to optimize the overall strategy? Continuous analysis and refinement are key to maximizing the effectiveness of a double resolution solution.

## Real-World Examples of Double Resolution Solutions

Let's look at a few real-world examples to illustrate the power of this strategy:

**Weight Loss:** Combining a balanced diet (solution 1) with regular exercise (solution 2) is far more effective than relying on just one.

**Project Management:** Employing Agile methodologies (solution 1) for flexibility and Waterfall methodologies (solution 2) for structured phases can optimize project delivery.

Business Growth: Implementing a robust marketing strategy (solution 1) along with exceptional customer service (solution 2) can dramatically improve business success.

## **Implementing a Double Resolution Solution in Your Life**

The beauty of this approach lies in its adaptability. Whether facing personal or professional challenges, a double resolution solution can be a game-changer. Start by identifying a problem, breaking it down into its core components, and carefully selecting two complementary approaches to address them. Remember, the key is synergy—choosing methods that work together to achieve a result greater than the sum of their parts.

## **Conclusion**

A double resolution solution offers a powerful and effective approach to tackling complex challenges. By strategically implementing two complementary methods, you significantly increase your chances of success, enhance efficiency, and reduce risk. This isn't just about throwing multiple solutions at a problem; it's about a thoughtful, strategic approach that leverages the power of synergy. Embrace this approach, and you'll find yourself better equipped to overcome even the most daunting obstacles.

## **FAQs**

1. Isn't a double resolution solution just more work? While it initially seems like more work, the synergistic effect often leads to greater efficiency and faster results than focusing on a single approach.
2. How do I choose the right two solutions? Consider the different aspects of the problem. Choose methods that address these aspects independently but in a way that complements each other.
3. What if one solution fails completely? Having a second solution acts as a safety net. You can re-evaluate, adapt, or focus your efforts on the more successful method.
4. Is this approach suitable for every problem? While not ideal for every single problem, it's a highly effective strategy for complex issues with multiple contributing factors.
5. How often should I re-evaluate my double resolution solution? Regular monitoring and re-evaluation are crucial. Ideally, you should track progress and adjust your strategy at least weekly, or as frequently as necessary to optimize the results.

**a double resolution solution:** *The Effects of Computational Resolution on Limited-area Solutions of the Barotropic Vorticity Equation* Chien-Hsiung Yang, 1981 Numerical experiments with the barotropic vorticity equation are carried out to examine the effects of the computational resolution on the forecast accuracy within a limited region. The experiments assume that wind is measured and predicted at prescribed times on a set of uniformly distributed grid points with a grid distance of about 750 km. The required initial and boundary conditions for a given computational resolution are estimated through interpolation. The finite-difference analogue of the vorticity equation is obtained using the Shuman algorithm and the leap-frog scheme. The time integration is extended for 12 hours. The observed winds are given by the values of the Rossby-Haurwitz waves and the forecast errors are defined by the differences between the predicted and observed values. Three levels of computational resolution, namely, the single-, double-, and quadruple resolutions are considered, in which the single resolution network coincides with the observational network. Two spatial interpolation procedures, the bilinear and the 16-point least-squares biquadratic interpolations and the linear time interpolation, are used to obtain estimates of requisite initial and boundary values.

**a double resolution solution:** *The Regularized Fast Hartley Transform* Keith Jones, 2010-03-10 Most real-world spectrum analysis problems involve the computation of the real-data discrete Fourier transform (DFT), a unitary transform that maps elements  $N$  of the linear space of real-valued  $N$ -tuples,  $R$ , to elements of its complex-valued  $N$  counterpart,  $C$ , and when carried out in hardware it is conventionally achieved via a real-from-complex strategy using a complex-data version of the fast Fourier transform (FFT), the generic name given to the class of fast algorithms used for the efficient computation of the DFT. Such algorithms are typically derived by exploiting the property of symmetry, whether it exists just in the transform kernel or, in certain circumstances, in the input data and/or output data as well. In order to make effective use of a complex-data FFT, however, via the chosen real-from-complex  $N$  strategy, the input data to the DFT must first be converted from elements of  $R$  to  $N$  elements of  $C$ . The reason for choosing the computational domain of real-data problems such as  $N \times N$  as this to be  $C$ , rather than  $R$ , is due in part to the fact that computing equipment manufacturers have invested so heavily in producing digital signal processing (DSP) devices built around the design of the complex-data fast multiplier and accumulator (MAC), an arithmetic unit ideally suited to the implementation of the complex-data radix-2 butterfly, the computational unit used by the familiar class of recursive radix-2 FFT algorithms.

**a double resolution solution:** *Monthly Weather Review*, 1986

**a double resolution solution:** *The Regularized Fast Hartley Transform* Keith John Jones, 2021-09-03 This book describes how a key signal/image processing algorithm – that of the fast Hartley transform (FHT) or, via a simple conversion routine between their outputs, of the real-data version of the ubiquitous fast Fourier transform (FFT) – might best be formulated to facilitate computationally-efficient solutions. The author discusses this for both 1-D (such as required, for example, for the spectrum analysis of audio signals) and  $m$ -D (such as required, for example, for the compression of noisy 2-D images or the watermarking of 3-D video signals) cases, but requiring few computing resources (i.e. low arithmetic/memory/power requirements, etc.). This is particularly relevant for those application areas, such as mobile communications, where the available silicon resources (as well as the battery-life) are expected to be limited. The aim of this monograph, where silicon-based computing technology and a resource-constrained environment is assumed and the data is real-valued in nature, has thus been to seek solutions that best match the actual problem needing to be solved.

**a double resolution solution:** *Hydraulic and Civil Engineering Technology VII* M. Yang, J.C.G. Lanzinha, P. Samui, 2022-12-23 Engineering technology is of crucial importance to the infrastructure on which modern societies depend, and keeping abreast of the latest research and developments in the field is of vital importance. This book presents the proceedings of HCET 2022, the 7th International Technical Conference on Frontiers of Hydraulic and Civil Engineering Technology, originally due to be held, in Sanya, China, from 25-27 September 2022, but instead held

as a fully virtual event on Zoom due to continued uncertainty related to the Covid 19 pandemic. HCET is a platform for the dissemination of research results on the latest advances in the areas of hydraulic and civil engineering technology and environmental engineering, and provides an opportunity for scientists, researchers and engineers from around the world to exchange their findings, discuss developments, and possibly establish a basis for collaboration. A total of 275 submissions were received from international contributors, and all were subjected to a rigorous peer-review process, with each paper reviewed by a minimum of two experts. Papers were also checked for quality and plagiarism, after which, 163 papers were accepted for presentation and publication. Topics covered include the research and development of concrete structure design and analysis, structural mechanics and structural engineering, geological exploration and earthquake engineering, building technology, urban planning, energy, environment and advanced engineering science and applications. The book offers a state-of-the-art overview of recent developments, and will be of interest to all those working in the fields of hydraulic and civil engineering technology.

**a double resolution solution: *Biopolymer Research Trends*** Tamás S. Németh, 2007

Biopolymers are a special class of polymers produced by living organisms. Starch, proteins and peptides, DNA, and RNA are all examples of biopolymers, in which the monomer units, respectively, are sugars, amino acids, and nucleic acids. A major but defining difference between polymers and biopolymers can be found in their structures. Polymers, including biopolymers, are made of repetitive units called monomers. Biopolymers inherently have a well defined structure: The exact chemical composition and the sequence in which these units are arranged is called the primary structure. Many biopolymers spontaneously fold into characteristic compact shapes (see also protein folding as well as secondary structure and tertiary structure), which determine their biological functions and depend in a complicated way on their primary structures. Structural biology is the study of the structural properties of the biopolymers. In contrast most synthetic polymers have much simpler and more random (or statistic) structures. This book presents leading-edge research from around the world in this dynamic field.

**a double resolution solution: *GNSS - Global Navigation Satellite Systems*** Bernhard

Hofmann-Wellenhof, Herbert Lichtenegger, Elmar Wasle, 2007-11-20 This book extends the scientific bestseller GPS - Theory and Practice to cover Global Navigation Satellite Systems (GNSS) and includes the Russian GLONASS, the European system Galileo, and additional systems. The book refers to GNSS in the generic sense to describe the various existing reference systems for coordinates and time, the satellite orbits, the satellite signals, observables, mathematical models for positioning, data processing, and data transformation. This book is a university-level introductory textbook and is intended to serve as a reference for students as well as for professionals and scientists in the fields of geodesy, surveying engineering, navigation, and related disciplines.

**a double resolution solution: *The Phase Rule and Its Applications*** Alexander Findlay,

2022-07-31 DigiCat Publishing presents to you this special edition of *The Phase Rule and Its Applications* by Alexander Findlay. DigiCat Publishing considers every written word to be a legacy of humankind. Every DigiCat book has been carefully reproduced for republishing in a new modern format. The books are available in print, as well as ebooks. DigiCat hopes you will treat this work with the acknowledgment and passion it deserves as a classic of world literature.

**a double resolution solution: *Developing Business Intelligence Apps for SharePoint***

David Feldman, Jason Himmelstein, 2013-07-02 Create dynamic business intelligence (BI) solutions for SharePoint faster and with more capabilities than previously possible. With this book, you'll learn the entire process—from high-level concepts to development and deployment—for building data-rich BI applications with Visual Studio LightSwitch, SQL Server 2012, and a host of related Microsoft technologies. You'll learn practical techniques and patterns necessary to use all of these technologies together as you build an example application through the course of the book, step by step. Discover how to solve real problems, using BI solutions that will evolve to meet future needs. Learn the fundamentals of SharePoint, LightSwitch, and SQL Server 2012 Get a solid grounding in BI application basics and database design principles Use LightSwitch to build a help desk app,

including data model design and SharePoint data integration Build a tabular cube with Microsoft's Business Intelligence Semantic Model (BISM) Dive into the data visualization stack, including Excel and SQL Server Reporting Services Create reports with Excel Services, Report Builder, and PowerView Use tips and tricks for setting up your BI application development environment

**a double resolution solution:** Applications of Physical Methods to Inorganic and Bioinorganic Chemistry Robert A. Scott, Charles M. Lukehart, 2007-12-10 Modern spectroscopic and instrumental techniques are essential to the practice of inorganic and bioinorganic chemistry. This first volume in the new Wiley Encyclopedia of Inorganic Chemistry Methods and Applications Series provides a consistent and comprehensive description of the practical applicability of a large number of techniques to modern problems in inorganic and bioinorganic chemistry. The outcome is a text that provides invaluable guidance and advice for inorganic and bioinorganic chemists to select appropriate techniques, whilst acting as a source to the understanding of these methods. This volume is also available as part of Encyclopedia of Inorganic Chemistry, 5 Volume Set. This set combines all volumes published as EIC Books from 2007 to 2010, representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry. Find out more.

**a double resolution solution: Issues in Biochemistry and Biophysics Research: 2012 Edition** , 2013-01-10 Issues in Biochemistry and Biophysics Research: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Biological Crystallography. The editors have built Issues in Biochemistry and Biophysics Research: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Biological Crystallography in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Biochemistry and Biophysics Research: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

**a double resolution solution:** *Encyclopedia of Sport Management* Paul M Pedersen, 2024-09-06 This thoroughly updated second edition of the Encyclopedia of Sport Management is an authoritative reference work that provides detailed explanations of critical concepts within the field.

**a double resolution solution:** *Mathematical Questions and Solutions* , 1916

**a double resolution solution: GPS for Land Surveyors** Jan Van Sickle, 2008-05-05 Since the last edition of this international bestseller, GPS has grown to become part of a larger international context, the Global Navigation Satellite System (GNSS). Both GPS and GNSS technologies are becoming ever more important in the everyday practice of survey and mappers. With GPS for Land Surveyors, Third Edition, a book written by a land s

**a double resolution solution: GPS for Land Surveyors, Third Edition** Jan Van Sickle, 2001-03-01 The GPS Signal - Biases and Solutions - The Framework - Receivers and Methods - Coordinates - Planning a Survey - Observing - Postprocessing - RTK and DGPS.

**a double resolution solution:** *Peptide-Lipid Interactions* Sidney A. Simon, Thomas J. McIntosh, 2002-11-13 This volume contains a comprehensive overview of peptide-lipid interactions by leading researchers. The first part covers theoretical concepts, experimental considerations, and thermodynamics. The second part presents new results obtained through site-directed EPR, electron microscopy, NMR, isothermal calorimetry, and fluorescence quenching. The final part covers problems of biological interest, including signal transduction, membrane transport, fusion, and adhesion. Key Features \* world-renowned experts \* state-of-the-art experimental methods \* monolayers, bilayers, biological membranes \* theoretical aspects and computer simulations \* rafts \* synaptic transmission \* membrane fusion \* signal transduction

**a double resolution solution: GNSS Seismogeodesy** Jianghui Geng, 2022-05-14 GNSS

Seismogeodesy: Theory and Applications combines GNSS and seismology theory and applications to offer both disciplines the background information needed to combine forces. It explores the opportunities for integrating GNSS and seismometers, as well as applications for earthquake and tsunami early warning applications. The book allows seismologists to better understand how GNSS positions are computed and how they can be combined with seismic data and allows geodesists to better understand how to apply GNSS to monitoring of crustal motion. This book is a valuable reference for researchers and students studying the interdisciplinary connection between GNSS geodesy and strong-motion seismology. It will also be ideal for anyone working on new approaches for monitoring and predicting geologic hazards. - Bridges the gap for geodesists and seismologists to better understand how their fields can be complementary - Offers an interdisciplinary approach to GNSS geodesy and strong-motion seismology, showing how high-precision GNSS positions can be combined with seismic data - Covers the applications of seismogeodesy to earthquake early warning (EEW) and tsunami early warning (TEW) - Includes algorithms and source code examples, along with links to open-source software and datasets

**a double resolution solution:** *Research, Fabrication And Applications Of Bi-2223 Hts Wires* Kenichi Sato, 2016-01-28 The purpose of this book is to cover all aspects of Bi-2223 superconducting wires from fundamental research, fabrication process to applications. This book contains many chapters written by distinguished experts in the world.

**a double resolution solution:** Mathematical Questions and Solutions, from the "Educational Times." , 1917

**a double resolution solution: Encyclopedia of Spectroscopy and Spectrometry** , 2016-09-22 This third edition of the Encyclopedia of Spectroscopy and Spectrometry, Three Volume Set provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles, including mass spectrometry, imaging techniques and applications. It includes the history, theoretical background, details of instrumentation and technology, and current applications of the key areas of spectroscopy. The new edition will include over 80 new articles across the field. These will complement those from the previous edition, which have been brought up-to-date to reflect the latest trends in the field. Coverage in the third edition includes: Atomic spectroscopy Electronic spectroscopy Fundamentals in spectroscopy High-Energy spectroscopy Magnetic resonance Mass spectrometry Spatially-resolved spectroscopic analysis Vibrational, rotational and Raman spectroscopies The new edition is aimed at professional scientists seeking to familiarize themselves with particular topics quickly and easily. This major reference work continues to be clear and accessible and focus on the fundamental principles, techniques and applications of spectroscopy and spectrometry. Incorporates more than 150 color figures, 5,000 references, and 300 articles for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Presents a one-stop resource for quick access to answers and an in-depth examination of topics in the spectroscopy and spectrometry arenas

**a double resolution solution: Medium Access Control in Wireless Networks** Hongyi Wu, Yi Pan, 2008 Wireless technologies and applications are becoming one of the fastest growing and most promising areas in recent years. To accommodate data transmission by multiple stations sharing the scarce wireless bandwidth, a medium access control (MAC) protocol plays a crucial role in scheduling packet transmission fairly and efficiently. The emerging wireless networks, such as ad-hoc networks, sensor networks or mesh networks, are mostly multi-hop based and in distributed manner, which brings a lot of problems and challenges in designing fine-tuned MAC protocols tailored for modern wireless network. In this book, the authors give complete and in-depth overviews to the classic medium access control algorithms and the related protocols, as well as their applications in various wireless data networks especially the most successful Wireless Local Area Networks (WLAN). The book consists of three major parts. Part I of this book, including Chapters 1-7, is emphasising on the fundamentals of medium access control algorithms and protocols. Chapter 1 provides an introduction to the wireless networks, such as overview of wireless networks,

problems and challenges of the wireless networks, and the classifications of MAC protocols as well as the performance metrics. Chapter 2 introduces important collision resolution algorithms applied in medium access controls, for example, the splitting algorithm and the backoff algorithm. Chapter 3 reviews the hybrid access control algorithms that combine both contention and allocation schemes. A series of important collision avoidance schemes are introduced in Chapters 4-7 respectively, with a specific design goal covered in each chapter. Chapter 4 focuses on the multi-channel MAC protocols for collision avoidance; Chapter 5 introduces the concepts of power control and power management in medium access control and how they can be applied in MAC protocol design; Chapter 6 presents how to provide Quality-of-Service (QoS) to multimedia wireless networks, in either centralised or distributed manner; and Chapter 7 explains how the smart antennas can be applied in the medium access control to provide high channel throughput and low packet collision.

**a double resolution solution:** *Cumulated Index Medicus*, 1997

**a double resolution solution:** Solid State NMR Spectroscopy for Biopolymers Hazime Saitô, Isao Ando, Akira Naito, 2006-08-05 "Biopolymers" are polymeric materials of biological origin, including globular, membrane, and fibrous proteins, polypeptides, nucleic acids, polysaccharides, lipids, etc. and their assembly, although preference to respective subjects may be different among readers who are more interested in their biological significance or industrial and/or medical applications. Nevertheless, characterizing or revealing their secondary structure and dynamics may be an equally very important and useful issue for both kinds of readers. Special interest in revealing the 3D structure of globular proteins, nucleic acids, and peptides was aroused in relation to the currently active Structural Biology. X-ray crystallography and multidimensional solution NMR spectroscopy have proved to be the standard and indispensable means for this purpose. There remain, however, several limitations to this end, if one intends to expand its scope further. This is because these approaches are not always straightforward to characterize fibrous or membrane proteins owing to extreme difficulty in crystallization in the former, and insufficient spectral resolution due to sparing solubility or increased effective molecular mass in the presence of surrounding lipid bilayers in the latter.

**a double resolution solution:** Molecular Mechanics Across Chemistry Anthony K. Rappé, Carla J. Casewit, 1997-05-07 The remarkable breadth of modern molecular mechanics is covered in this textbook, developed for an undergraduate or first-time course on molecular mechanics. With applications ranging from drug design to homogeneous transition metal catalysis, the book implements a case-study approach designed to give readers exposure to the relevance and utility of molecular mechanics, as well as the opportunity to study a particular problem and its solution in depth.

**a double resolution solution:** Aminoglycoside Antibiotics Dev P. Arya, 2007-06-29 Advances that open new avenues in developing aminoglycoside antibiotics During the last twenty years, there have been numerous advances in the understanding of the chemistry, biochemistry, and recognition of aminoglycosides. This has led to the development of novel antibiotics and opened up new therapeutic targets for intervention. This is the first book to provide a complete overview of recent advances in the field and explore their tremendous potential for drug discovery and rational drug design. With chapters written by one or more leading experts in their specialty areas, the book addresses the chemistry, biology, and toxicology of aminoglycosides. Aminoglycoside Antibiotics: From Chemical Biology to Drug Discovery is a great resource for academic and industrial researchers in drug design and mechanism studies and for researchers studying antibiotic resistance, antibiotic design and synthesis, and the discovery of novel pharmaceuticals. It is also a valuable reference for graduate students in pharmacy, pharmaceutical science, biophysics, medicinal chemistry, and chemical biology.

**a double resolution solution:** Engineering Satellite-Based Navigation and Timing John W. Betz, 2015-12-29 This book describes the design and performance analysis of satnav systems, signals, and receivers, with a general approach that applies to all satnav systems and signals in use or under development. It also provides succinct descriptions and comparisons of each satnav system.



Clearly structured, and comprehensive depiction of engineering satellite-based navigation and timing systems, signals, and receivers GPS as well as all new and modernized systems (SBAS, GLONASS, Galileo, BeiDou, QZSS, IRNSS) and signals being developed and fielded Theoretical and applied review questions, which can be used for homework or to obtain deeper insights into the material Extensive equations describing techniques and their performance, illustrated by MATLAB plots New results, novel insights, and innovative descriptions for key approaches and results in systems engineering and receiver design If you are an instructor and adopted this book for your course, please email [ieeeproposals@wiley.com](mailto:ieeeproposals@wiley.com) to get access to the instructor files for this book.

**a double resolution solution: Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times". , 1910**

**a double resolution solution: *Interlingua – Instrumento moderne de communication international (English version)*** Ingvar Stenström, 2009-11-19 This is an introductory course of Interlingua, the English version of the famous course by Ingvar Stenström, Sweden, which has been translated into 14 languages. Interlingua - the language within languages. - Le diffusion global del vocabulario international - le parte del latino e del greco que supervive in le linguas moderne - es un facto historic. Interlingua es un registration de iste realitate linguistic, un denominator commun del idiomas de origine europeae, e non un lingua artificial fabricate secundo arbitrari preferential de un sol persona. - Interlingua can be learnt in a fraction of the time required to get just a superficial knowledge of a national tongue, and it gives you a means to communicate with those who speak Italian, Spanish, or Portuguese. In addition you tangibly increase your English vocabulary of cultural words and scientific and technological terminology.

**a double resolution solution: *Educational Times* , 1910**

**a double resolution solution: *The Path to the Double Helix*** Robert Olby, 2013-05-13 Written by a noted historian of science, this in-depth account traces how Watson and Crick achieved one of science's most dramatic feats: their 1953 discovery of the molecular structure of DNA.

**a double resolution solution: *NMR of Biological Macromolecules*** Chariklia I. Stassinopoulou, 2013-06-29 Provided here are the latest techniques of NMR as applied to the study of proteins, carbohydrates and nucleic acids. The first chapters are devoted to an introduction to NMR and parameters related to molecular structure and molecular interactions. NMR experiments from basic 1D to 2D, 3D and 4D, used in combination with isotopically labelled molecules, are described and a general strategy is presented for biomacromolecular structure determination. Subsequent chapters deal with more advanced principles and techniques and their applications to structural and dynamic processes involving biomacromolecules in solution. Advanced results on peptide, protein, oligosaccharide and nucleic acid structure and recognition are presented.

**a double resolution solution: *Iron Geochemistry: An Isotopic Perspective*** Clark Johnson, Brian Beard, Stefan Weyer, 2020-01-09 This book provides a comprehensive summary of research to date in the field of stable iron isotope geochemistry. Since research began in this field 20 years ago, the field has grown to become one of the major research fields in non-traditional stable isotope geochemistry. This book reviews all aspects of the field, from low-temperature to high-temperature processes, biological processes, and cosmochemical processes. It provides a detailed history and state-of-the art summary about analytical methods to determine Fe-isotope ratios and discusses analytical and sample prospects.

**a double resolution solution: *Double Fourier Series Solution of Poisson's Equation on a Sphere*** Samuel Y. K. Yee, 1980

**a double resolution solution: *Rational Drug Design*** Donald G. Truhlar, W. Jeffrey Howe, Anthony J. Hopfinger, Jeff Blaney, Richard E. Dammkoehler, 2012-12-06 Drug research and discovery are of critical importance in human health care. Computational approaches for drug lead discovery and optimization have proven successful in many recent research programs. These methods have grown in their effectiveness not only because of improved understanding of the basic science - the biological events and molecular interactions that define a target for therapeutic intervention - but also because of advances in algorithms, representations, and mathematical

procedures for studying such processes. This volume surveys some of those advances. A broad landscape of high-profile topics in computer-assisted molecular design (CAMD) directed to drug design are included. Subject areas represented in the volume include receptor-based applications such as binding energy approximations, molecular docking, and de novo design; non-receptor-based applications such as molecular similarity; molecular dynamics simulations; solvation and partitioning of a solute between aqueous and nonpolar media; graph theory; non-linear multidimensional optimization, processing of information obtained from simulation studies, global optimization and search strategies, and performance enhancement through parallel computing.

**a double resolution solution: Spectroscopy of Polymers** J.L. Koenig, 1999-09-16 This revised and updated Second Edition of the best-selling reference/text is essential reading for students and scientists who seek a thorough and practical introduction to the field of polymer spectroscopy. Eleven chapters cover the fundamental aspects and experimental applications of the primary spectroscopic methods. The advantages and disadvantages of the various techniques for particular polymer systems are also discussed. The goal of the author is not to make the reader an expert in the field, but rather to provide enough information about the different spectroscopic methods that the reader can determine how the available techniques can be used to solve a particular polymer problem. This Second Edition contains new and updated information on techniques in IR and NMR, as well as an all-new chapter on Mass Spectrometry.

**a double resolution solution: CJEU - Recent Developments in Value Added Tax 2021** Georg Kofler, Michael Lang, Pasquale Pistone, Alexander Rust, Josef Schuch, Karoline Spies, Claus Staringer, Ilze Kuniga, 2023-01-11 The most important and recent judgments of the CJEU Considering the ever-increasing importance of indirect taxation as a source of revenue for governments, the intensifying complexity of the legal framework, and the proliferating number of countries adopting indirect taxation, it is essential to scrutinize how the law is applied in practice. The primary driving force in this area is, undoubtedly, the Court of Justice of the European Union. This book analyses selected topics (e.g. taxpayer rights in EU VAT law, bad debt and insolvency in VAT law, taxable base and rates, exemptions, and deductions) by examining the most prominent and recent judgments of the Court of Justice of the European Union. Experts from all over the world, not just from academia but also government and judiciary representatives as well as tax practitioners, have provided their input and helped us compile what is an informative and worthy read for anyone dealing with indirect taxation on a professional basis.

**a double resolution solution: Study of Double Parton Scattering Using Four-Jet Scenarios** Paolo Gunnellini, 2015-08-24 This thesis addresses in a very new and elegant way several measurements and the extraction of so-called double parton scattering. The new and elegant way lies in the combination of measurements and a very smart extraction of double parton scattering results, which is easy to apply and overcomes many of the technical difficulties of older methods. Many new phenomena in particle physics can be observed when particles are collided at the highest energies; one of the highlights in recent years was the discovery of the Higgs boson at the Large Hadron Collider at CERN. Understanding the production mechanism of the Higgs boson at the LHC requires detailed knowledge of the physics of proton-proton collisions. When the density of partons in the protons becomes large, there is a non-negligible probability that more than one parton participates in the interaction and the so-called double parton scattering becomes important. In some cases very particular final state signatures can be observed, which can be regarded as an indication of such double partonic scattering and where the different interactions can be separated. Such multiple partonic interactions play an important role when precise predictions from known processes are required.

**a double resolution solution: Protein Structural Biology in Biomedical Research, Part A** C. Woodward, 1998-01-16 Recent advances in protein structural biology, coupled with new developments in human genetics, have opened the door to understanding the molecular basis of many metabolic, physiological, and developmental processes in human biology. Medical pathologies, and their chemical therapies, are increasingly being described at the molecular level. For

single-gene diseases, and some multi-gene conditions, identification of highly correlated genes immediately leads to identification of covalent structures of the actual chemical agents of the disease, namely the protein gene products. Once the primary sequence of a protein is ascertained, structural biologists work to determine its three-dimensional, biologically active structure, or to predict its probable fold and/or function by comparison to the data base of known protein structures. Similarly, three-dimensional structures of proteins produced by microbiological pathogens are the subject of intense study, for example, the proteins necessary for maturation of the human HIV virus. Once the three-dimensional structure of a protein is known or predicted, its function, as well as potential binding sites for drugs that inhibit its function, become tractable questions. The medical ramifications of the burgeoning results of protein structural biology, from gene replacement therapy to rational drug design, are well recognized by researchers in biomedical areas, and by a significant proportion of the general population. The purpose of this book is to introduce biomedical scientists to important areas of protein structural biology, and to provide an insightful orientation to the primary literature that shapes the field in each subject. The chapters in this volume cover aspects of protein structural biology which have led to the recognition of fundamental relationships between protein structure and function.

**a double resolution solution:** China Satellite Navigation Conference (CSNC) 2017

Proceedings: Volume III Jiadong Sun, Jingnan Liu, Yuanxi Yang, Shiwei Fan, Wenxian Yu, 2017-05-02 These proceedings present selected research papers from CSNC2017, held during 23th-25th May in Shanghai, China. The theme of CSNC2017 is Positioning, Connecting All. These papers discuss the technologies and applications of the Global Navigation Satellite System (GNSS), and the latest progress made in the China BeiDou System (BDS) especially. They are divided into 12 topics to match the corresponding sessions in CSNC2017, which broadly covered key topics in GNSS. Readers can learn about the BDS and keep abreast of the latest advances in GNSS techniques and applications.

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