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Marriage and Lasting Relationships with Asperger's Syndrome (Autism Spectrum Disorder) **Diagnosis Asparagus** Spectroscopy of Rubbers and Rubbery Materials **Infrared and Raman Spectroscopy of Polymers** Gender Identity, Sexuality and Autism **Dosimetry for the Little Eva Critical Assembly** Value-Based Metrics **The Role of the Spectrum in the Cyclic Behavior of Composition Operators** *Dosimetry for the Little Eva Critical Assembly* Analysis of Flame Retardancy In Polymer Science 3D QSAR in Drug Design **Journal of the Chemical Society** Heat Sealing in Packaging **Specific Interactions and the Miscibility of Polymer Blends** 7th International Conference on Fourier Transform Spectroscopy *Fire Retardancy of Polymeric Materials, Second Edition* **Industrial Analysis with Vibrational Spectroscopy** The Routledge Handbook of Language and Superdiversity *Trans Experiences - A Research Report for Trans Communities and their Allies* **Pervasive Computing Technologies for Healthcare Inorganic Materials** Handbook of Vibrational Spectroscopy, 5 Volume Set X-Ray Fluorescence Spectrometry and Related Techniques **Academic Abilities in Children and Adolescents with a History of Autism Spectrum Disorders Who Have Achieved Optimal Outcomes Diagnosis Asparagus Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes (TADF-OLEDs)** Three Dimensional QSAR Summary of Eva A. Mendes' Marriage and Lasting Relationships with Asperger's Syndrome (Autism Spectrum Disorder) *Practical Guide to Polyethylene* Academic Functioning in Children with a History of Autism Spectrum Disorders who Have Achieved Optimal Outcomes *Foundations of Economic Value Added* **A Differential Diagnosis of Autism and Related Spectrum Disorders** *Proton and Carbon NMR Spectra of Polymers* Open-cycle Magnetohydrodynamic Electrical Power Generation *Thermal Analysis and Calorimetry* **Twenty Years After Communism Memoirs of the Faculty of Engineering, Nagoya University** *Two-Dimensional Correlation Spectroscopy* On the Connexion of the Physical Sciences *Developments in Plastics Technology —3*

Investors, shareholders, and corporate leaders looking for an edge in today's New Economy are moving beyond traditional accounting yardsticks toward new means of gauging performance and profitability. An increasing number of Wall Street analysts and corporate boards are adopting value-based metrics such as EVA, MVA, and CFROI as a measure of a firm's profitability because these standards adjust for all of the firm's cost of capital - equity as well as debt. James Grant tackled the issue of economic value added in its infancy with Foundations of Economic Value Added - one of the first primers on the topic, endorsed by its creator, G. Bennett Stewart. Now, in Value Based Metrics: Foundations and Practice, he and Frank Fabozzi head a team of some of the leading proponents of value based metrics on both the investment management side and the corporate side. This comprehensive reference outlines how corporations and analysts can use value based metrics to more accurately measure the financial performance of individual companies, industries, and economies, as well as how to get an edge in today's turbulent market. This practical guide begins with general background to the polyethylene family, with price, production and market share information. It describes the basic types of polyethylene including virgin and filled polyethylene, copolymers, block and graft polymers and composites, and reviews the types of additives used in polyethylene. It gives the low down on the properties, including, amongst others, rheological, mechanical, chemical, thermal, and electrical properties. It goes on to describe the processing issues and conditions for the wide range of techniques used for polyethylene, and also considers post-processing and assembly issues. It offers guidance on product design and development issues, including materials selection. It is an indispensable resource for everyone working with this material. This book constitutes the refereed proceedings of the 15th International Conference on Pervasive Computing Technologies for Healthcare, Pervasive Health 2021, held in December 2021. Due to COVID-19 pandemic the conference was held virtually. The 28 full and 7 short papers were selected from 74 submissions and are organized in 3 main tracks: hospitality and community care, homecare and medical education. The COVID 19 pandemic was challenging all dimensions of Pervasive Health (PH) and traditional ways of monitoring, diagnosing, treating and communicating changed dramatically. Trans communities are in the headlines. Everybody has an opinion on 'what transsexuality is'. But how do trans people themselves describe being trans? This community based study examined this question. Findings include that the diversity and complexity of people's experience by far exceeds what is commonly acknowledged. Physical embodiment and social acceptance are important to trans people, but the most unifying themes are self-finding, self-realization and spirituality. Experiences described cover a wide range. They can in fact be mutually exclusive. This suggests that any simplistic 'one fits all' explanation will be oppressive to at least some trans people. In a sad twist, the research finds that trans people who challenge the clinical model of transsexuality the most, are also the ones who most likely will not participate in clinical studies - thus guaranteeing that much of the diversity within communities remains hidden - except by community based research like the one at hand. An updated look at the role of economic profit analysis in the process of wealth creation Grant explains the pivotal role of economic value added (EVA) in the theory of finance, how to measure EVA with standard accounting adjustments, how to use EVA to value companies and their stock, and how to use economic profit principles to identify wealth-creating firms, industries, and even market economies. Analysis of Flame Retardancy in Polymer Science is a scientific/practical book that is conceptualized, designed, and written for students, early-career researchers, and junior engineers to explain the basic principles of fire analysis/characterization methods/methodologies, from flammability, ignition, and fire spread to forced convection and related analyses and to elucidate the mechanisms underlying flame retardancy in both gas and condensed phases followed by correlation between laboratory- and real-scale fire analyses as well as fire analysis from an industrial standpoint. This book is also an indispensable resource for identifying and mounting the latest achievements in fire analysis/characterization methods to frame the effects of fire evaluation strategies to be utilized for research and development. The book also gives a broad description of fire analysis related to different standards and regulations for different applications in different geographic zones. Includes the background, fundamental, and modern features of techniques of characterization of fire and flame behavior Provides an overview of the major techniques used in fire analysis of flame-retardant polymers Characterizes different types of materials at small, bench, and real-life scale Offers a comprehensive overview of fire behavior and testing and associated toxicity issues Integrates the scientific, technical, standard, regulation, and industrial aspects of fire analysis into a book for future developments in the field Industrial Analysis with Vibrational Spectroscopy is an integrated work which emphasises the synergy and complementary nature of the techniques of infrared and Raman spectroscopy in industrial laboratories. The book is written in a pragmatic and straight-forward manner and is illustrated throughout with examples of real-world, everyday problems and applications. It provides a developed, realistic insight into industrial analysis with vibrational spectroscopy for both undergraduate and academic researcher, while additionally providing a straight-forward working tool of value to the industrial laboratory worker. Bringing together a collection of narratives from those who are on the autism spectrum whilst also identifying as lesbian, gay, bisexual, transgender, queer, intersex and/or asexual (LGBTQIA), this book explores the intersection of the two spectrums as well as the diverse experiences that come with it. By providing knowledge and advice based on in-depth research and personal accounts, the narratives will be immensely valuable to teenagers, adults, partners and families. The authors round these stories with a discussion of themes across narratives, and implications for the issues discussed. In the final chapter, the authors reflect on commonly asked questions from a clinical perspective, bringing in relevant research, as well as sharing best-practice tips and considerations that may be helpful for LGBTQIA and ASD teenagers and adults. These may also be used by family members and clinicians when counselling teenagers and adults on the dual spectrum. With each chapter structured around LGBTQIA and autism spectrum identities, Gender Identity, Sexuality and Autism highlights the fluidity of gender identity, sexual orientation and neurodiversity and provides a space for people to share their individual experiences. When dealing with challenges such as providing fire protection while considering cost, mechanical and thermal performance and simultaneously addressing increasing regulations that deal with composition of matter and life cycle issues, there are no quick, one-size-fits-all answers. Packed with comprehensive coverage, scientific approach, step-by-step directions, and a distillation of technical knowledge, the first edition of Fire Retardancy of Polymeric Materials broke new ground. It supplied a one-stop resource for the development of new fire safe materials. The editors have expanded the second edition to echo the multidisciplinary approach inherent in current flame retardancy technology and put it in a revised, more user-friendly format. More than just an update of previously covered topics, this edition discusses: additional fire retardant chemistry developments in regulations and standards new flame retardant approaches fire safety engineering modeling and fire growth phenomena The book introduces flame retardants polymer-by-polymer, supplemented by a brief overview of mode of action and interaction, and all the other ancillary issues involved in this applied field of materials science. The book delineates what, why, and how to do it, covering the fundamentals of polymer burning/combustion and how to apply these systems and chemistries to specific materials classes. It also provides suggested formulations, discusses why certain materials are preferred for particular uses or applications, and offers a starting point from which to develop fire-safe materials. Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes (TADF-OLEDs) comprehensively introduces the history of TADF, along with a review of fundamental concepts. Then, TADF emitters with different colors, such as blue, green, red and NIR as well as white OLEDs are discussed in detail. Other sections cover exciplex-type TADF materials, emerging application of TADF emitters as a host in OLEDs, and applications of TADF materials in organic lasers and biosensing. Discusses green, blue, red, NIR and white TADF emitters and their design strategies for improved performance for light-emitting diode applications Addresses emerging materials, such as molecular and exciplex-based TADF materials Includes emerging applications like lasers and biosensors Volumes 2 and 3 of the 3D QSAR in Drug Design series aim to review the progress being made in CoMFA and other 3D QSAR approaches since the publication of the highly successful first volume about four years ago. Volume 2 (Ligand-Protein Interactions and Molecular Similarity) divides into three sections dealing with Ligand-Protein Interactions, Quantum Chemical Models and Molecular Dynamics Simulations, and Pharmacophore Modelling and Molecular Similarity, respectively. Volume 3 (Recent Advances) is also divided into three sections, namely 3D QSAR Methodology: CoMFA and Related Approaches, Receptor Models and Other 3D QSAR Approaches, and 3D QSAR Applications. More

than seventy distinguished scientists have contributed nearly forty reviews of their work and related research to these two volumes which are of outstanding quality and timeliness. These works present an up-to-date coverage of the latest developments in all fields of 3D QSAR. A highly readable, insightful and sometimes humorous account of autism assessment, diagnosis and life with a 'label'. Eva was diagnosed with Asperger Syndrome (ASD) at age 11 and is now a fun-loving, sociable 16-year-old. This book, co-written with her mother, a speech and language therapist, discusses their reasons for seeking a diagnosis, the process of being assessed, their reactions to the news and the impact it has had on Eva's life. It also considers how diagnosis has helped them find strategies to lessen the challenges of living with an ASD. Concluding that it doesn't really matter whether the name for the set of traits that characterise autism changes or what it changes to, this life-affirming book shows diagnosis to be a positive and empowering experience. It will be helpful to any family embarking on the assessment process as well as professionals looking for insight into a family's diagnosis journey. Proven counseling strategies that will help improve the relationships of married, long-term or co-habiting couples with Asperger's Syndrome (Autism Spectrum Disorder). ASD relationship expert Eva A. Mendes provides advice straight from the couples' counselling room that can be applied in day-to-day living and help with the challenges that can arise in relationships where one or both partners are on the autism spectrum. This includes issues surrounding diagnosis, mental health, sexual compatibility, sensory needs, executive functioning, theory of mind, communication, and co-parenting. She offers unique practical ideas for positive change such as creating a relationship schedule, making expression of appreciation and gratitude a part of every day, and finding mutually satisfying activities and special interests to engage in with your partner. The strategies in this book will be useful to couples themselves and any couples' counselors or therapists working with them. This book deals with the application of spectroscopic techniques for characterisation of chemical and physical structures in viscoelastic materials, such as unvulcanised elastomers and their vulcanisates, various rubbery materials and some plastics, which when blended with particular additives (plasticisers) behave like rubbers. Analysis of the rubbery materials is complicated by the fact that rubbery products, such as tyres, tubes, seals, V-belts and hoses, contain in the rubbery matrix a significant amount of various compounds, i.e., fillers, vulcanising agents, antioxidants and plasticisers. Due to the complex composition, no single technique can provide a good understanding of the effect of chemical and physical structures on the functional properties of rubbery materials. Thus spectroscopy has become a powerful tool for the determination of polymer structures. The most comprehensive information on chemical and physical structures in relation to material properties can be obtained by using a combination of macroscopic techniques and methods that provide information on the molecular level. frequently used for analysis of rubbery materials, i.e., various methods of nuclear magnetic resonance (NMR) and optical spectroscopy. The main objective of this present book is to discuss a wide range of applications of the spectroscopic techniques for the analysis of rubbery materials. The book brings together the various spectroscopic techniques for obtaining the following information: chemical structure of rubbery materials, network structure analysis, heterogeneity of rubbery materials, physical properties of rubbery materials, functional properties and stability of rubbery materials, processing of rubbery materials and quality control. The contents of this book are of interest to chemists, physicists, material scientists and technologists who seek a better understanding of rubbery materials. THE DEFINITIVE RESOURCE The first truly comprehensive work on vibrational spectroscopy, providing a one-stop reference for infrared, near-infrared and Raman spectroscopy. AUTHORITATIVE, ... With contributions from acknowledged leaders in the field, the calibre of the editors and authors speaks for itself. Volume 1: Theory and Instrumentation Volume 2: Sampling Techniques Volume 3: Sample Characterization and Spectral Data Processing Volume 4: Applications in Industry, Materials and the Physical Sciences Volume 5: Applications in Life, Pharmaceutical and Natural Sciences COMPREHENSIVE, ... Covering all aspects of infrared, near-infrared and Raman spectroscopy the five volumes also include coverage of associated techniques, such as inelastic neutron scattering, electron energy loss and cavity ringdown spectroscopy. AND ON YOUR WAVELENGTH. Each of the extensively referenced articles comprises a brief introduction as well as in-depth coverage of the subject. The result... a resource that will be useful for both the beginner to the field as well as the expert. Please note: This is a companion version & not the original book. Sample Book Insights: #1 When a neurodiverse marriage fails, it can be several years before either partner realizes that ASD is at play. The NS partner may begin looking for additional explanations for her husband’s behavior, and may begin to wonder why her partner doesn’t love her. #2 Adults with ASD are often successful at work, and may go their entire lives without feeling the need to seek a diagnosis. Many psychiatrists provide medication during a 20-minute appointment, but not counseling. #3 The prevalence of ASD is on the rise. It is mainly genetic, but environmental causes cannot be completely ruled out. Neurodiversity is the idea that neurological differences like autism and ADHD are the result of normal, natural variation in the human genome. #4 The autism spectrum is a neurological difference, rather than a mental disorder. It is not a disease that needs to be cured. It is characterized by a set of traits, or a behavioral profile with certain core features. X-ray fluorescence spectrometry (XRF) is a well-established analytical technique for qualitative and quantitative elemental analysis of a wide variety of routine quality control and research samples. Among its many desirable features, it delivers true multi-element character analysis, acceptable speed and economy, easy of automation, and the capacity to analyze solid samples. This remarkable contribution to this field provides a comprehensive and up-to-date account of basic principles, recent developments, instrumentation, sample preparation procedures, and applications of XRF analysis. If you are a professional in materials science, analytic chemistry, or physics, you will benefit from not only the review of basics, but also the newly developed technologies with XRF. Those recent technological advances, including the design of low-power micro- focus tubes and novel X-ray optics and detectors, have made it possible to extend XRF to the analysis of low-Z elements and to obtain 2D or 3D information on a micrometer-scale. And, the recent development and commercialization of bench top and portable instrumentation, offering extreme simplicity of operation in a low-cost design, have extended the applications of XRF to many more analytical problems. Contains 458 NMR spectra with associated analytical notes covering acrylics, amides, dienes, ethers, olefins, siloxins, styrenes and derivatives, urethanes, vinyls and vinylidenes. This work provides details of the chemical structure of the analyzed sample, in addition to analytical conditions including nucleus, frequency, spectrometer and lock. Vibrational spectroscopy is advantageous as an analytical tool for polymers and comprises two complementary techniques: infrared (IR) and Raman spectroscopy. This report is an absorbing overview of how these methods can be employed to provide information about complex polymeric macromolecules with respect to composition, structure, conformation and intermolecular interactions. The review is supported by several hundred abstracts selected from the Polymer Library giving useful references for further reading. Introduction and preliminaries Linear fractional maps with an interior fixed point Non elliptic automorphisms The parabolic non automorphism Supercyclic linear fractional composition operators Endnotes Bibliography. "Remembering the past, especially as collectivity, is a political process, thus the politics of memory and commemoration is an integral part of the establishment of new political regimes, new identities, and new principles of political legitimacy. This volume is about the explosion of the politics of memory triggered by the fall of state socialism in Eastern Europe, particularly about the politics of its commemoration twenty years later. It offers seventeen in-depth case studies, an original theoretical framework, and a comparative study of memory regime types and their origins. Four different kinds of mnemonic actors are identified: mnemonic warriors, mnemonic pluralists, mnemonic abnegators, and mnemonic prospectives. Their combinations render three different types of memory regimes: fractured, pillarized, and unified. Disciplined comparative analysis shows how several different configurations of factors affect the emergence of mnemonic actors and different varieties of memory regimes. There are three groups of causal factors that influence the political form of the memory regime: the range of structural constraints the actors face (e.g., the type of regime transformation), cultural constraints linked to past political conflict (e.g., salient ethnic or religious cleavages), and cultural and strategic choices actors make (e.g. framing post-communist political identities)"-- A valuable tool for individuals using correlation spectroscopy and those that want to start using this technique. Noda is known as the founder of this technique, and together with Ozaki, they are the two biggest names in the area First book on 2D vibrational and optical spectroscopy - single source of information, pulling together literature papers and reveiws Growing number of applications of this methodology - book now needed for people thinking of using this technique Limitations and benefits discussed and comparisons made with 2D NMR Discusses 20 optical and vibrational spectroscopy (IR, Raman, UV, Visible) Contains contributed articles discussing various aspects of processing, properties and applications including computational aspects of: Magnetic and electronic materials; Electro-optical materials; Biomaterials; and, Nanomaterials. A highly readable, insightful and sometimes humorous account of autism assessment, diagnosis and life with a 'label'. Eva was diagnosed with Asperger Syndrome (ASD) at age 11 and is now a fun-loving, sociable 16-year-old. This book, co-written with her mother, a speech and language therapist, discusses their reasons for seeking a diagnosis, the process of being assessed, their reactions to the news and the impact it has had on Eva's life. It also considers how diagnosis has helped them find strategies to lessen the challenges of living with an ASD. Concluding that it doesn't really matter whether the name for the set of traits that characterise autism changes or what it changes to, this life-affirming book shows diagnosis to be a positive and empowering experience. It will be helpful to any family embarking on the assessment process as well as professionals looking for insight into a family's diagnosis journey. This book with software provides powerful tools for the analysis, prediction and creation of new polymer blends, an area of significant commercial potential. The R&D approaches and methods described in the book have attracted the interest of polymer R&D leaders in industry, and have been put into use in several major chemical companies. The companion set of computer programs speeds and facilitates work in this area. FROM THE AUTHORS' PREFACE: During the 1980's a steadily increasing number of compatible systems [polymer blends] have been reported. We believe that miscible mixtures will prove to be fairly common and the purpose of this book is to explore the circumstances in which single phase materials can be obtained. We will also describe a model for the phase behavior of these mixtures which we believe to have a predictive value, or be used as a practical guide to polymer miscibility. Our approach is based on the use of association models which have until recently been largely ignored in treating hydrogen bonding in polymer mixtures. They have most frequently been applied to mixtures of alcohols with simple hydrocarbons, where the equilibrium constants used to describe association have most frequently been determined by a fit to thermodynamic data (e.g., vapor pressures, heat of mixing). In our work we have sought to, first, adapt this approach to a description of the phase behavior of polymer mixtures; second, develop spectroscopic methods that provide an independent measurement of the equilibrium constants. Our purpose in this book is to explore and describe this approach and illustrate its broad utility. We address two overlapping yet different audiences. One would be primarily interested in the broad nature of this approach and the practical applications of a simple model. The second would be more interested in the derivations of the equations and some of the fundamental aspects of the spectroscopy of these systems. Accordingly this book is in the form of a sandwich. We begin with a brief introduction to theories of mixing and the phase behavior of polymeric mixtures, followed by a practical guide to polymer miscibility. This chapter also serves to identify

the types of systems in which, by copolymerization or other means, one might introduce the appropriate hydrogen bonding functional groups and obtain a miscible system. The [main substance] of this book is in [the] chapters where fundamental aspects of hydrogen bonds, spectroscopy and the application of association models are described. We also offer [separately] computer programs that calculate and display many of the important quantities described in this book (e.g., the stoichiometry of hydrogen bonding and its relationship to infrared measurements, phase behavior, etc.). In our view one can obtain a good feel for the miscibility of many systems with these programs. The Routledge Handbook of Language and Superdiversity provides an accessible and authoritative overview of this growing area, the linguistic analysis of interaction in superdiverse cities. Developed as a descriptive term to account for the increasingly stratified processes and effects of migration in Western Europe, ‘superdiversity’ has the potential to contribute to an enhanced understanding of mobility, complexity, and change, with theoretical, practical, global, and methodological reach. With seven sections edited by leading names, the handbook includes 35 state-of-the art chapters from international authorities. The handbook adopts a truly interdisciplinary approach, covering: Cultural heritage Sport Law Education Business and entrepreneurship. The result is a truly comprehensive account of how people live, work and communicate in superdiverse spaces. This volume is key reading for all those engaged in the study and research of Language and Superdiversity within Applied Linguistics, Linguistic Anthropology and related areas. As a result of new statistical and mathematical approaches, improved visualization tools, and recognition by international regulatory groups, quantitative structure-activity relationships (QSARs) now play important roles in pharmacology for the design of new drugs as well as in toxicology and ecotoxicology for hazard identification and risk assessment. Providing up-to-date coverage of the field, Three Dimensional QSAR: Applications in Pharmacology and Toxicology presents the most recent QSAR methods and illustrates their scope, advantages, and limitations. Part I The first part of the book addresses CoMFA and related methods, such as CoMSIA, FLUFF, SOMFA. It also describes shape-, surface-, and volume-based approaches, including MSA, excluded volume, LIV, HASL, receptor surface model, COMPASS, and CoMSA. Part II Focusing on methods that use 3D information, the second part covers autocorrelation methods, such as GRIND; similarity-based methods, including similarity matrices and quantum similarity indices; and quantitative spectroscopic data–activity relationships. Some applications in data mining are also explored. Part III The third part deals with post-3D models. The authors discuss the adaptation of the receptor and simultaneous presence of several conformers or solvation mechanisms. Part IV The final part presents receptor-related approaches as well as docking and free energy calculations, which are treated at various levels. This part concerns the extensive sampling of phase space and approximate methods, such as linear interaction energy, Poisson–Boltzmann, and generalized Born models. A case study covering several parallel approaches is also developed. An appendix offers the basic principles of modeling and statistical tools routinely required in QSAR methodologies, including optimization methods, molecular mechanics and dynamics, multivariate analysis, nonlinear models, and evolutionary techniques. It provides newcomers with the concepts necessary to fully grasp the essentials of these methods and gives a basic grounding in their correct use. Illustrated with numerous examples and a color insert, this book supplies a clear overview of the strengths and weaknesses of 3D-QSAR approaches. It explains how these modern techniques can link the biological activity of chemicals to their structure, encompassing both their 2D structural formulae and 3D geometry. Because of the sheer size of the plastics industry, the title Developments in Plastics Technology now covers an incredibly wide range of subjects or topics. No single volume can survey the whole field in any depth and so what follows is therefore a series of chapters on selected topics. The topics were selected by us, the editors, because of their immediate relevance to the plastics industry. When one considers the materials produced and used by the modern plastics industry, there is a tendency to think of the commodity thermoplastics (such as poly(vinyl chloride) or polyethylene); the thermosetting materials are largely ignored. Because of this attitude we are very pleased to include in this volume a chapter which deals with the processing of a thermosetting material, i.e. the pultrusion of glass reinforced polyester. The extrusion of plastics is, of course, a very important subject but an aspect which is often overlooked is the need to remove volatile matter during processing: for this reason we have included a chapter on devolatilisation. Current industrial practice is towards materials modification and this attitude is reflected in the chapters on the transformation of ethylene vinyl acetate polymers and the use of wollastonite in two important thermoplastics. When assessing the performance of materials, there is a tendency to concentrate on short-term mechanical tests and ignore such topics as fatigue and longer-term testing. We are therefore very pleased to include a chapter on this subject.