

The Literature Of Northern Ireland Spectral Borderlands New Directions In Irish And Irish American Literature

The Literature of Northern Ireland [The Literature of Northern Ireland](#) The Literature of Northern Ireland Post-Agreement Northern Irish Literature Northern Irish Writing After the Troubles Stark Broadening of Spectral Lines in Plasmas The Oxford Handbook of Modern Irish Fiction [Spectral Geometry of Shapes](#) Applications of Raman Spectroscopy to Biology Planned Violence The Economics of Empire Haunted Heaney Postmodern Poetry and Queer Medievalisms: Time Mechanics [Resolving Spectral Mixtures](#) UV and X-Ray Spectroscopy of Laboratory and Astrophysical Plasmas Dust and Molecules in Evolved Stars Northern Ireland a generation after Good Friday Progress in Atomic Spectroscopy Pharmaceutical Applications of Raman Spectroscopy Affective Computing and Intelligent Interaction Spectral Spaces [Computer Vision Technology in the Food and Beverage Industries](#) Energy Research Abstracts [Official Gazette of the United States Patent and Trademark Office](#) Proceedings of the the 7th International Colloquium on Atomic Spectra and Oscillator Strengths (ASOS 7) Scientific and Technical Aerospace Reports Comprehensive Physics for Engineers Numerical Modelling of Wave Energy Converters Haunted historiographies Fusion Energy Update Orthogonal Polynomials in the Spectral Analysis of Markov Processes Who Owns Whom ERDA Energy Research Abstracts Objects and Intertexts in Toni Morrison's "Beloved" Protecting National Security Advances in Standards and Methodology in Spectrophotometry [Knowledge Science, Engineering and Management](#) Spatial Data Analysis Spectra of Ionized Atoms: From Laboratory to Space Journal of Nuclear Energy

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Haunted historiographies Jun 03 2020 The spectres of history haunt Irish fiction. In this compelling study, Matthew Schultz maps these rhetorical hauntings across a wide range of postcolonial Irish novels, and defines the spectre as a non-present presence that simultaneously symbolises and analyses an overlapping of Irish myth and Irish history. By exploring this exchange between literary discourse and historical events, Haunted historiographies provides literary historians and cultural critics with a theory of the spectre that exposes the various complex ways in which novelists remember, represent and reinvent historical narrative. It juxtaposes canonical and non-canonical novels that complicate long-held assumptions about four definitive events in modern Irish history – the Great Famine, the Irish Revolution, the Second World War and the Northern Irish Troubles – to demonstrate how historiographical Irish fiction from James Joyce and Samuel Beckett to Roddy Doyle and Sebastian Barry is both a product of Ireland's colonial history and also the rhetorical means by which a post-colonial culture has emerged.

Objects and Intertexts in Toni Morrison's "Beloved" Dec 30 2019 Objects and Intertexts in Toni Morrison's "Beloved": The Case for Reparations is an inspired contribution to the scholarship on one of the most influential American novels and novelists. The author positions this contemporary classic as a meditation on historical justice and re-comprehends it as both a formal tragedy— a generic translation of fiction and tragedy or a "novel-tragedy" (Kliger)—and a novel of objects. Its many things—literary, conceptual, linguistic— are viewed as vessels carrying the (hi)story and the political concerns. From this, a third conclusion is drawn: Fadem argues for a view of Beloved as a case for reparations. That status is founded on two outstanding object lessons: the character of Beloved as embodiment of the subject-object relations defining the slave state and the grammatical object "weather" in the sentence "The rest is..." on the novel's final page. This intertextual reference places Beloved in a comparative link with Hamlet and Oresteia. Fadem's research is meticulous in engaging the full spectrum of tragedy theory, much critical theory, and a full swathe of scholarship on the novel. Few critics take up the matter of reparations, still fewer the politics of genre, craft, and form. This scholar posits Morrison's tragedy as constituting a searing critique of modernity, as composed through meaningful intertextualities and as crafted by profound "thingly" objects (Brown). Altogether, Fadem has divined a fascinating singular treatment of Beloved exploring the connections between form and craft together with critical historical and political implications. The book argues, finally, that this novel's

first concern is justice, and its chief aim to serve as a clarion call for material— and not merely symbolic—reparations.

The Literature of Northern Ireland Nov 01 2022 Through close readings of texts by playwright Anne Devlin, poet Medbh McGuckian, and novelist Anna Burns, this book examines the ways Irish cultural production has been disturbed by partition. Ruprecht Fadem argues that literary texts address this tension through spectral, bordered metaphors and juxtapositions of the ancient and the contemporary.

Proceedings of the the 7th International Colloquium on Atomic Spectra and Oscillator Strengths (ASOS 7) Oct 08 2020
Planned Violence Jan 23 2022 This book brings the insights of social geographers and cultural historians into a critical dialogue with literary narratives of urban culture and theories of literary cultural production. In so doing, it explores new ways of conceptualizing the relationship between urban planning, its often violent effects, and literature. Comparing the spatial pasts and presents of the post-imperial and post/colonial cities of London, Delhi and Johannesburg, but also including case studies of other cities, such as Chicago, Belfast, Jerusalem and Mumbai, *Planned Violence* investigates how that iconic site of modernity, the colonial city, was imagined by its planners — and how this urban imagination, and the cultural and social interventions that arose in response to it, made violence a part of the everyday social life of its subjects. Throughout, however, the collection also explores the extent to which literary and cultural productions might actively resist infrastructures of planned violence, and imagine alternative ways of inhabiting post/colonial city spaces.

Postmodern Poetry and Queer Medievalisms: Time Mechanics Oct 20 2021 This volume builds on recent scholarship on contemporary poetry in relation to medieval literature, focusing on postmodern poets who work with the medieval in a variety of ways. Such recent projects invert or “queer” the usual transactional nature of engagements with older forms of literature, in which readers are asked to exchange some small measure of bewilderment at archaic language or forms for a sense of having experienced a medieval text. The poets under consideration in this volume demand that readers grapple with the ways in which we are still “medieval” – in other words, the ways in which the questions posed by their medieval source material still reverberate and hold relevance for today’s world. They do so by challenging the primacy of present over past, toppling the categories of old and new, and suggesting new interpretive frameworks for contemporary and medieval poetry alike.

ERDA Energy Research Abstracts Jan 29 2020

Dust and Molecules in Evolved Stars Jul 17 2021 Dust and molecules are found in a large variety of astrophysical environments, in particular in the circumstellar material ejected by evolved stars. This book brings together the leading astronomers and astrophysicists in the field of molecular astrophysics and stellar physics to discuss the important issues of dust and molecular formation, the role of solids in circumstellar environments, molecules as probes of circumstellar parameters, the stellar contribution to the enrichment of the Galaxy, and the latest observational data in various wavelength domains, in particular in the infrared with results from the Infrared Space Observatory. The astrophysical scenarios include late-type stars, novae, Wolf-Rayet stars, Luminous Blue Variables and supernovae. Audience: Researchers and graduate students in the fields of stellar physics, stellar evolution and astrochemistry.

Spectral Geometry of Shapes Mar 25 2022 *Spectral Geometry of Shapes* presents unique shape analysis approaches based on shape spectrum in differential geometry. It provides insights on how to develop geometry-based methods for 3D shape analysis. The book is an ideal learning resource for graduate students and researchers in computer science, computer engineering and applied mathematics who have an interest in 3D shape analysis, shape motion analysis, image analysis, medical image analysis, computer vision and computer graphics. Due to the rapid advancement of 3D acquisition technologies there has been a big increase in 3D shape data that requires a variety of shape analysis methods, hence the need for this comprehensive resource. Presents the latest advances in spectral geometric processing for 3D shape analysis applications, such as shape classification, shape matching, medical imaging, etc. Provides intuitive links between fundamental geometric theories and real-world applications, thus bridging the gap between theory and practice Describes new theoretical breakthroughs in applying spectral methods for non-isometric motion analysis Gives insights for developing spectral geometry-based approaches for 3D shape analysis and deep learning of shape geometry

Northern Irish Writing After the Troubles Jun 27 2022 The period since the Good Friday Agreement in 1998 has seen a sustained decrease in violence and, at the same time, Northern Ireland has undergone a literary renaissance, with a fresh generation of writers exploring innovative literary forms. This book explores contemporary Northern Irish fiction and how the 'post'-conflict period has led writers to a renewed engagement with intimacy and intimate life. Magennis draws on affect and feminist theory to examine depictions of intimacy, pleasure and the body in their writings and shows how intimate life in Northern Ireland is being reshaped and re-written. Featuring short reflective pieces from some of today's most compelling Northern Irish Writers, including Lucy Caldwell, Jan Carson, Bernie McGill and David Park, this book provides authoritative insights into how a contemporary engagement with intimacy provides us with new ways to understand Northern Irish identity, selfhood and community.

The Literature of Northern Ireland Sep 30 2022 *The Literature of Northern Ireland: Spectral Borderlands* theorizes how Irish cultural production has been disturbed by partition. Maureen Ruprecht Fadem argues that the rearrangement of the island and creation of multiple states produced two major effects in the North: it incited concomitant fractures within self and society and interrupted experiences of place. Chapters analyze the ways in which conditions are represented in the literature through a self-contradictory poetics that fuses ancient and contemporary literary styles. Age-old Irish tropes are deployed within recognizably postmodern styles in works that rely, particularly, on specter and scrim: haunting, deathly characters and metaphors and perilous, pivotal borders.

Knowledge Science, Engineering and Management Sep 26 2019 This book constitutes the proceedings of the 4th

International Conference on Knowledge Science, Engineering and Management held in Belfast, Northern Ireland, UK, in September 2010.

Computer Vision Technology in the Food and Beverage Industries Jan 11 2021 The use of computer vision systems to control manufacturing processes and product quality has become increasingly important in food processing. Computer vision technology in the food and beverage industries reviews image acquisition and processing technologies and their applications in particular sectors of the food industry. Part one provides an introduction to computer vision in the food and beverage industries, discussing computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing. Part two goes on to consider computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure. Current and future applications of computer vision in specific areas of the food and beverage industries are the focus of part three. Techniques for quality control of meats are discussed alongside computer vision in the poultry, fish and bakery industries, including techniques for grain quality evaluation, and the evaluation and control of fruit, vegetable and nut quality. With its distinguished editor and international team of expert contributors, Computer vision technology in the food and beverage industries is an indispensable guide for all engineers and researchers involved in the development and use of state-of-the-art vision systems in the food industry. Discusses computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing Considers computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure Examines techniques for quality control and computer vision in various industries including the poultry, fish and bakery, fruit, vegetable and nut industry

Protecting National Security Nov 28 2019 This book contends that modern concerns surrounding the UK State's investigation of communications (and, more recently, data), whether at rest or in transit, are in fact nothing new. It evidences how, whether using common law, the Royal Prerogative, or statutes to provide a lawful basis for a state practice traceable to at least 1324, the underlying policy rationale has always been that first publicly articulated in Cromwell's initial Postage Act 1657, namely the protection of British 'national security', broadly construed. It further illustrates how developments in communications technology led to Executive assumptions of relevant investigatory powers, administered in conditions of relative secrecy. In demonstrating the key role played throughout history by communications service providers, the book also charts how the evolution of the UK Intelligence Community, entry into the 'UKUSA' communications intelligence-sharing agreement 1946, and intelligence community advocacy all significantly influenced the era of arguably disingenuous statutory governance of communications investigation between 1984 and 2016. The book illustrates how the 2013 'Intelligence Shock' triggered by publication of Edward Snowden's unauthorized disclosures impelled a transition from Executive secrecy and statutory disingenuousness to a more consultative, candid Executive and a policy of 'transparent secrecy', now reflected in the Investigatory Powers Act 2016. What the book ultimately demonstrates is that this latest comprehensive statute, whilst welcome for its candour, represents only the latest manifestation of the British state's policy of ensuring protection of national security by granting powers enabling investigative access to communications and data, in transit or at rest, irrespective of location.

The Literature of Northern Ireland Aug 30 2022 Through close readings of texts by playwright Anne Devlin, poet Medbh McGuckian, and novelist Anna Burns, this book examines the ways Irish cultural production has been disturbed by partition. Ruprecht Fadem argues that literary texts address this tension through spectral, bordered metaphors and juxtapositions of the ancient and the contemporary.

Spectra of Ionized Atoms: From Laboratory to Space Jul 25 2019 This book is a printed edition of the Special Issue "Spectra of Ionized Atoms: From Laboratory to Space" that was published in Atoms

Northern Ireland a generation after Good Friday Jun 15 2021 The Good Friday Agreement is widely celebrated as a political success story, one that has brought peace to a region that was once synonymous around the globe with political violence. The truth, as ever, is rather more complicated than that. In many respects, the era of the peace process has seen Northern Irish society change almost beyond recognition. Those incidents of politically motivated violence that were once commonplace have become thankfully rare and a new generation has emerged whose identities and interests are rather more fluid and cosmopolitan than those of their predecessors. However, Northern Ireland continues to operate in the long shadow of its own turbulent past. Those who were victims of violence, as well as those who were its agents, have often been consigned to the margins of a society still struggling to cope with the traumas of the Troubles. Furthermore, the transition to 'peace' has revealed the existence of new, and not so new, forms of violence in Northern Irish society, directed towards women, ethnic minorities and the poor. Northern Ireland a generation after Good Friday sets out to capture the complex, and often contradictory, realities that have emerged more than two decades on from the region's vaunted peace deal. Across nine original essays, the authors offer a critical and comprehensive reading of a society that often appears to have left its violent past behind but at the same time remains subject to its gravitational pull.

Post-Agreement Northern Irish Literature Jul 29 2022 This book uncovers a new genre of 'post-Agreement literature', consisting of a body of texts - fiction, poetry and drama - by Northern Irish writers who grew up during the Troubles but published their work in the aftermath of the Good Friday Agreement. In an attempt to demarcate the literary-aesthetic parameters of the genre, the book proposes a selective revision of postcolonial theories on 'liminality' through a subset of concepts such as 'negative liminality', 'liminal suspension' and 'liminal permanence.' These conceptual interventions, as the readings demonstrate, help articulate how the Agreement's rhetorical negation of the sectarian past and its aggressive neoliberal campaign towards a 'progressive' future breed new forms of violence that produce liminally suspended subject

positions.

Official Gazette of the United States Patent and Trademark Office Nov 08 2020

The Oxford Handbook of Modern Irish Fiction Apr 25 2022 The Oxford Handbook of Modern Irish Fiction presents authoritative essays by thirty-five leading scholars of Irish fiction. They provide in-depth assessments of the breadth and achievement of novelists and short story writers whose collective contribution to the evolution and modification of these unique art forms has been far out of proportion to Ireland's small size. The volume brings a variety of critical perspectives to bear on the development of modern Irish fiction, situating authors, texts, and genres in their social, intellectual, and literary historical contexts. The Handbook's coverage encompasses an expansive range of topics, including the recalcitrant atavisms of Irish Gothic fiction; nineteenth-century Irish women's fiction and its influence on emergent modernism and cultural nationalism; the diverse modes of irony, fabulism, and social realism that characterize the fiction of the Irish Literary Revival; the fearless aesthetic radicalism of James Joyce; the jolting narratological experiments of Samuel Beckett, Flann O'Brien, and Máirtín Ó Cadhain; the fate of the realist and modernist traditions in the work of Elizabeth Bowen, Frank O'Connor, Seán O'Faoláin, and Mary Lavin, and in that of their ambivalent heirs, Edna O'Brien, John McGahern, and John Banville; the subversive treatment of sexuality and gender in Northern Irish women's fiction written during and after the Troubles; the often neglected genres of Irish crime fiction, science fiction, and fiction for children; the many-hued novelistic responses to the experiences of famine, revolution, and emigration; and the variety and vibrancy of post-millennial fiction from both parts of Ireland. Readably written and employing a wealth of original research, The Oxford Handbook of Modern Irish Fiction illuminates a distinguished literary tradition that has altered the shape of world literature.

The Economics of Empire Dec 22 2021 The Economics of Empire: Genealogies of Capital and the Colonial Encounter is a multi-disciplinary intervention into postcolonial theory that constructs and theorizes a political economy of empire. This comprehensive collection traces the financial genealogies associated with the colonial enterprise, the strategies of economic precarity, the pedigrees of capital, and the narratives of exploitation that underlay and determined the course of modern history. One of the first attempts to take this approach in postcolonial studies, the book seeks to sketch the commensal relation—a symbiotic "phoresy"—between capitalism and colonialism, reading them as linked structures that carried and sustained each other through and across the modern era. The scholars represented here are all postcolonial critics working in a range of disciplines, including Political Science, Sociology, History, Peace and Conflict Studies, Legal Studies, and Literary Criticism, exploring the connections between empire and capital, and the historical and political implications of that structural hinge. Each author engages existing postcolonial and poststructuralist theory and criticism while bridging it over to research and analytic lenses less frequently engaged by postcolonial critics. In so doing, they devise novel intersectional and interdisciplinary frameworks through which to produce more greatly nuanced understandings of imperialism, capitalism, and their inextricable relation, 'new' postcolonial critiques of empire for the 21st century. This book will be an excellent resource for students and researchers of Postcolonial Studies, Literature, History, Sociology, Economics, Political Science and International Studies, among others.

Progress in Atomic Spectroscopy May 15 2021 W. HANLE and H. KLEINPOPPEN In 1919, in the first edition of *Atombau und Spektrallinien*, Sommerfeld referred to the immense amount of information which had been accumulated during the first period of 60 years of spectroscopic practice. Sommerfeld emphasized that the names of Planck and Bohr would be connected forever with the efforts that had been made to understand the physics and the theory of spectral lines. Another period of almost 60 years has elapsed since the first edition of Sommerfeld's famous monograph. As the editors of this monograph, *Progress in Atomic Spectroscopy*, we feel that the present period is best characterized by the large variety of new spectroscopic methods that have been invented in the last decades. Spectroscopy has always been involved in the field of research on atomic structure and the interaction of light and atoms. The development of new spectroscopic methods (i.e., new as compared to the traditional optical methods) has led to many outstanding achievements, which, together with the increase of activity over the last decades, appear as a kind of renaissance of atomic spectroscopy.

Affective Computing and Intelligent Interaction Mar 13 2021 This book constitutes the refereed proceedings of the First International Conference on Affective Computing and Intelligent Interaction, ACII 2005, held in Beijing, China in October 2005 as an associated event of ICCV 2005, the International Conference on Computer Vision. The 45 revised full papers and 81 revised poster papers presented were carefully reviewed and selected from 198 submissions. They cover a wide range of topics, such as facial expression recognition, face animation, emotional speech synthesis, intelligent agent, and virtual reality. The papers are organized in topical sections on affective face and gesture processing, affective speech processing, evaluation of affective expressivity, affective database, annotation and tools, psychology and cognition of affect, and affective interaction and systems and applications.

Spectral Spaces Feb 09 2021 Offers a comprehensive presentation of spectral spaces focussing on their topology and close connections with algebra, ordered structures, and logic.

Numerical Modelling of Wave Energy Converters Jul 05 2020 Numerical Modelling of Wave Energy Converters: State-of-the-Art Techniques for Single WEC and Converter Arrays presents all the information and techniques required for the numerical modelling of a wave energy converter together with a comparative review of the different available techniques. The authors provide clear details on the subject and guidance on its use for WEC design, covering topics such as boundary element methods, frequency domain models, spectral domain models, time domain models, non linear potential flow models, CFD models, semi analytical models, phase resolving wave propagation models, phase averaging wave propagation models, parametric design and control optimization, mean annual energy yield, hydrodynamic loads assessment, and environmental impact assessment. Each chapter starts by defining the fundamental principles underlying

the numerical modelling technique and finishes with a discussion of the technique's limitations and a summary of the main points in the chapter. The contents of the chapters are not limited to a description of the mathematics, but also include details and discussion of the current available tools, examples available in the literature, and verification, validation, and computational requirements. In this way, the key points of each modelling technique can be identified without having to get deeply involved in the mathematical representation that is at the core of each chapter. The book is separated into four parts. The first two parts deal with modelling single wave energy converters; the third part considers the modelling of arrays; and the final part looks at the application of the different modelling techniques to the four most common uses of numerical models. It is ideal for graduate engineers and scientists interested in numerical modelling of wave energy converters, and decision-makers who must review different modelling techniques and assess their suitability and output. Consolidates in one volume information and techniques for the numerical modelling of wave energy converters and converter arrays, which has, up until now, been spread around multiple academic journals and conference proceedings making it difficult to access Presents a comparative review of the different numerical modelling techniques applied to wave energy converters, discussing their limitations, current available tools, examples, and verification, validation, and computational requirements Includes practical examples and simulations available for download at the book's companion website Identifies key points of each modelling technique without getting deeply involved in the mathematical representation

Advances in Standards and Methodology in Spectrophotometry Oct 27 2019 These conference proceedings form a worthy contribution to the literature on spectrometry reviving the tradition begun at the U.S. National Bureau of Standards conferences in the 1970's of holding interdisciplinary conferences on advances in the standardisation and methodology of spectrometry. The papers and poster abstracts presented in this volume maintain the high professional standards of these earlier NBS conferences, providing a basis for further progress in this discipline.

Energy Research Abstracts Dec 10 2020 Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

UV and X-Ray Spectroscopy of Laboratory and Astrophysical Plasmas Aug 18 2021 Up-to-date accounts of recent and future advances in short-wavelength spectroscopy of laboratory and cosmic plasmas.

Scientific and Technical Aerospace Reports Sep 06 2020

Fusion Energy Update May 03 2020

Who Owns Whom Mar 01 2020

Resolving Spectral Mixtures Sep 18 2021 *Resolving Spectral Mixtures: With Applications from Ultrafast Time-Resolved Spectroscopy to Superresolution Imaging* offers a comprehensive look into the most important models and frameworks essential to resolving the spectral unmixing problem—from multivariate curve resolution and multi-way analysis to Bayesian positive source separation and nonlinear unmixing. Unravelling total spectral data into the contributions from individual unknown components with limited prior information is a complex problem that has attracted continuous interest for almost four decades. Spectral unmixing is a topic of interest in statistics, chemometrics, signal processing, and image analysis. For decades, researchers from these fields were often unaware of the work in other disciplines due to their different scientific and technical backgrounds and interest in different objects or samples. This led to the development of quite different approaches to solving the same problem. This multi-authored book will bridge the gap between disciplines with contributions from a number of well-known and strongly active chemometric and signal processing research groups. Among chemists, multivariate curve resolution methods are preferred to extract information about the nature, amount, and location in time (process) and space (imaging and microscopy) of chemical constituents in complex samples. In signal processing, assumptions are usually around statistical independence of the extracted components. However, the chapters include the complexity of the spectral data to be unmixed as well as dimensionality and size of the data sets. Advanced spectroscopy is the key thread linking the different chapters. Applications cover a large part of the electromagnetic spectrum. Time-resolution ranges from femtosecond to second in process spectroscopy and spatial resolution covers the submicronic to macroscopic scale in hyperspectral imaging. Demonstrates how and why data analysis, signal processing, and chemometrics are essential to the spectral unmixing problem Guides the reader through the fundamentals and details of the different methods Presents extensive plots, graphical representations, and illustrations to help readers understand the features of different techniques and to interpret results Bridges the gap between disciplines with contributions from a number of well-known and highly active chemometric and signal processing research groups

Haunted Heaney Nov 20 2021 *Haunted Heaney: Spectres and the Poetry* looks at the ghosts and spectres present within the poetry of the Nobel Prize winning poet Seamus Heaney. Covering Heaney's work from his first collection, *Death of a Naturalist*, to his final collection, *Human Chain*, this volume analyses Heaney's poetry through the lens of hauntology as presented by Jacques Derrida in *Specters of Marx*. This book presents spectres and ghosts not in the conventional sense, as purely supernatural, physical manifestations haunting a place, but instead as having a non-physical presence. In this sense past cultures, societies, texts, poets, and memories are examined as having a spectral influence on Heaney's writing. His work is indebted to hauntedness as the past in all its forms sutures itself within the present of his thinking and writing, and our reading of the poetry. Topics for discussion include the Norse spectres in the early poetry; British colonialism and its haunting influence on the poet; a renewed look at the bog poems as being influenced by the spectral; the classical

influence of Virgil and Dante; and a reading of 'Route 110' that incorporates the major instances of Heaney's career into a singular poem. The book also incorporates Heaney's prose work and interviews into the discussion and uses these works as a metacommentary to the poetry offering a deeper insight into the mind of one of Ireland's greatest writers.

Journal of Nuclear Energy Jun 23 2019

Pharmaceutical Applications of Raman Spectroscopy Apr 13 2021 Raman spectroscopy has advanced in recent years with increasing use both in industry and academia. This is due largely to steady improvements in instrumentation, decreasing cost, and the availability of chemometrics to assist in the analysis of data. Pharmaceutical applications of Raman spectroscopy have developed similarly and this book will focus on those applications. Carefully organized with an emphasis on industry issues, *Pharmaceutical Applications of Raman Spectroscopy*, provides the basic theory of Raman effect and instrumentation, and then addresses a wide range of pharmaceutical applications. Current applications that are routinely used as well as those with promising potential are covered. Applications cover a broad range from discovery to manufacturing in the pharmaceutical industry and include identifying polymorphs, monitoring real-time processes, imaging solid dosage formulations, imaging active pharmaceutical ingredients in cells, and diagnostics.

Orthogonal Polynomials in the Spectral Analysis of Markov Processes Apr 01 2020 In pioneering work in the 1950s, S. Karlin and J. McGregor showed that probabilistic aspects of certain Markov processes can be studied by analyzing orthogonal eigenfunctions of associated operators. In the decades since, many authors have extended and deepened this surprising connection between orthogonal polynomials and stochastic processes. This book gives a comprehensive analysis of the spectral representation of the most important one-dimensional Markov processes, namely discrete-time birth-death chains, birth-death processes and diffusion processes. It brings together the main results from the extensive literature on the topic with detailed examples and applications. Also featuring an introduction to the basic theory of orthogonal polynomials and a selection of exercises at the end of each chapter, it is suitable for graduate students with a solid background in stochastic processes as well as researchers in orthogonal polynomials and special functions who want to learn about applications of their work to probability.

Applications of Raman Spectroscopy to Biology Feb 21 2022 Raman spectroscopy has been known and used as a technique for 80 years, originally for the study of inorganic substances. Recent advances in underlying technology, such as lasers, detectors, filters and components, have transformed the technique into a very effective modern tool for studying complex biological problems. Professor Mahmoud Ghomi (of the University of Paris XIII) has edited this book on the applications of Raman spectroscopy to biology, covering in a readily accessible way the area from basic studies to the diagnosis of disease. The early chapters provide background information on basic principles underlying the main Raman methods covered in the book, with information on Surface-Enhanced Raman Scattering (SERS) and Surface-Enhanced Fluorescence (SEF), as well as giving accounts of applications to biomolecular and cellular investigations. Among the topics covered are studies of drugs and their complexes with biomolecules on nanoparticles, application of SERS to blood analysis, studies of single cells and of applications to human cancer diagnostics. This will be a useful book for experimental scientists in academic, governmental, industrial and clinical environments and for those entering the field of biomolecular spectroscopy.

Stark Broadening of Spectral Lines in Plasmas May 27 2022 This book is a printed edition of the Special Issue "Stark Broadening of Spectral Lines in Plasmas" that was published in *Atoms*

Spatial Data Analysis Aug 25 2019 *Spatial Data Analysis* introduces key principles about spatial data and provides guidance on methods for their exploration; it provides a set of key ideas or frameworks that will give the reader knowledge of the kinds of problems that can be tackled using the tools that are widely available for the analysis of spatial data.

Comprehensive Physics for Engineers Aug 06 2020