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Physical Science March 2014 Paper 1 Memo Grade 12 Pdf Pdf - **physical science march 2014 paper 1 memo grade 12 pdf pdf** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **physical science march 2014 paper 1 memo grade 12 pdf pdf**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Who's who Among Students in American Universities and Colleges Henry Pettus Randall 1978

To an Effective Local Langlands Correspondence Colin J. Bushnell 2014-08-12 Let F be a non-Archimedean local field. Let \mathcal{W}_{F} be the Weil group of F and \mathcal{P}_{F} the wild inertia subgroup of \mathcal{W}_{F}. Let \widehat {\mathcal{W}}_{F} be the set of equivalence classes of irreducible smooth representations of \mathcal{W}_{F}. Let \mathcal{A}^{0}_{n}(F) denote the set of equivalence classes of irreducible cuspidal representations of \mathrm{GL}_{n}(F) and set \widehat {\mathrm{GL}}_{F} = \bigcup _{n\ge 1} \mathcal{A}^{0}_{n}(F). If \sigma \in \widehat {\mathcal{W}}_{F}, let ^{L}{\sigma }\in \widehat {\mathrm{GL}}_{F} be the cuspidal representation matched with \sigma by the Langlands Correspondence. If \sigma is totally wildly ramified, in that its restriction to \mathcal{P}_{F} is irreducible, the authors treat ^{L}{\sigma} as known. From that starting point, the authors construct an explicit bijection \mathbb{N}:\widehat {\mathcal{W}}_{F} \to \widehat {\mathrm{GL}}_{F}, sending \sigma to ^{N}{\sigma}. The authors compare this "naïve correspondence" with the Langlands correspondence and so achieve an effective description of the latter, modulo the totally wildly ramified case. A key tool is a novel operation of "internal twisting" of a suitable representation \pi (of \mathcal{W}_{F} or

\mathrm{GL}_{n}(F)) by tame characters of a tamely ramified field extension of F, canonically associated to \pi. The authors show this operation is preserved by the Langlands correspondence.

Relative Equilibria in the 3-Dimensional Curved n-Body Problem Florin Diacu 2014-03-05

Optimal Regularity and the Free Boundary in the Parabolic Signorini Problem Donatella Daniell 2017-09-25 The authors give a comprehensive treatment of the parabolic Signorini problem based on a generalization of Almgren's monotonicity of the frequency. This includes the proof of the optimal regularity of solutions, classification of free boundary points, the regularity of the regular set and the structure of the singular set.

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine 2017-02-06 The Office of the Under Secretary of Defense (Personnel & Readiness), referred to throughout this report as P&R, is responsible for the total force management of all Department of Defense (DoD) components including the recruitment, readiness, and retention of personnel. Its work and policies are supported by a number of organizations both within DoD, including the Defense Manpower Data Center (DMDC), and externally, including the federally funded research and development centers (FFRDCs) that work for DoD. P&R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members' career satisfaction and their ability to meet new challenges. P&R must also address larger-scale questions, such as how the current realignment of forces to the Asia-Pacific area and other regions will affect recruitment, readiness, and retention. While DoD makes use of large-scale data and mathematical analysis in intelligence, surveillance, reconnaissance, and elsewhereâ€"exploiting techniques such as complex network analysis, machine learning, streaming social media analysis, and anomaly detectionâ€"these skills and capabilities have not been applied as well to the personnel and readiness enterprise. Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P&R.

Гендерный мозг. Современная нейробиология развенчивает миф о женском мозге Джина Риппон 2019-08-03 Веками женский мозг взвешивали, измеряли и находили ненужным. «Женщины ближе к детям и дикарям, чем к взрослому цивилизованному мужчине», — написал французский психолог Гюстав Лебон на рубеже XIX—XX веков. «Женский» мозг, часть несовершенной и хрупкой биологии, долго считали достаточным основанием, чтобы не допускать «слабый пол» к образованию, политике и науке. Нейробиолог Джина Риппон разрушает мифы о разнице «мужского» и «женского» и объясняет, почему это разделение отравляет жизнь не только женщин, но и мужчин.

Fundamental Solutions and Local Solvability for Nonsmooth Hörmander’s Operators Marco Bramanti 2017-09-25 The authors consider operators of the form in a bounded domain of where are nonsmooth Hörmander's vector fields of step such that the highest order commutators are only Hölder continuous. Applying Levi's

parametrix method the authors construct a local fundamental solution for and provide growth estimates for and its first derivatives with respect to the vector fields. Requiring the existence of one more derivative of the coefficients the authors prove that also possesses second derivatives, and they deduce the local solvability of , constructing, by means of , a solution to with Hölder continuous . The authors also prove estimates on this solution.
Spectra of Symmetrized Shuffling Operators Victor Reiner 2014-03-05 For a finite real reflection group W and a W-orbit $\mathcal{O}$ of flats in its reflection arrangement--or equivalently a conjugacy class of its parabolic subgroups--the authors introduce a statistic $\operatorname{noninv}_\mathcal{O}(w)$ on w in W that counts the number of ``$\mathcal{O}$-noninversions'' of w. This generalizes the classical (non-)inversion statistic for permutations w in the symmetric group $\mathfrak{S}_n$. The authors then study the operator $\nu_\mathcal{O}$ of right-multiplication within the group algebra $\mathbb{C} W$ by the element that has $\operatorname{noninv}_\mathcal{O}(w)$ as its coefficient on w.
Freedom's Laboratory Audra J. Wolfe 2020-08-04 Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era, the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States.
Transfer of Siegel Cusp Forms of Degree 2 Ameya Pitale 2014-09-29 Let be the automorphic representation of generated by a full level cuspidal Siegel eigenform that is not a Saito-Kurokawa lift, and be an arbitrary cuspidal, automorphic representation of . Using Furusawa's integral representation for combined with a pullback formula involving the unitary group , the authors prove that the -functions are "nice". The converse theorem of Cogdell and Piatetski-Shapiro then implies that such representations have a functorial lifting to a cuspidal representation of . Combined with the exterior-square lifting of Kim, this also leads to a functorial lifting of to a cuspidal representation of . As an application, the authors obtain analytic properties of various -functions related to full level Siegel cusp forms. They also obtain special value results for and
Strengthening Forensic Science in the United States National Research Council 2009-07-29 Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the

United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Decision Making and Knowledge Decision Support Systems Anna Maria Gil-Lafuente 2014-12-01 This book presents recent advancements of research, new methods and techniques, applications and projects in decision making and decision support systems. It explores expert systems and neural networks, knowledge engineering and management, fuzzy sets and systems and computational methods for optimization, data analysis and decision making. It presents applications in Economics, Finance, Management and Engineering. The book undertakes to stimulate scientific exchange, ideas and experiences in the field of decision making in Economy and Management. Researchers and practitioners alike will benefit from this book, when they are dealing with imprecision, vagueness and uncertainty in the context of decision making.

Twort's Water Supply Malcolm J. Brandt 2016-09-03 Twort's Water Supply, Seventh Edition, has been expanded to provide the latest tools and techniques to meet engineering challenges over dwindling natural resources. Approximately 1.1 billion people in rural and peri-urban communities of developing countries do not have access to safe drinking water. The mortality from diarrhea-related diseases amounts to 2.2 million people each year from the consumption of unsafe water. This update reflects the latest WHO, European, UK, and US standards, including the European Water Framework Directive. The book also includes an expansion of waste and sludge disposal, including energy and sustainability, and new chapters on intakes, chemical storage, handling, and sampling. Written for both professionals and students, this book is essential reading for anyone working in water engineering. Features expanded coverage of waste and sludge disposal to include energy use and sustainability Includes a new chapter on intakes Includes a new chapter on chemical storage and handling

Homological Mirror Symmetry for the Quartic Surface Paul Seidel 2015-06-26 The author proves Kontsevich's form of the mirror symmetry conjecture for (on the symplectic geometry side) a quartic surface in C .

Geometric Complexity Theory IV: Nonstandard Quantum Group for the Kronecker Problem Jonah Blasiak 2015-04-09 The Kronecker coefficient is the multiplicity of the -irreducible in the restriction of the -irreducible via the natural map , where are -vector spaces and . A fundamental open problem in algebraic combinatorics is to find a positive combinatorial formula for these coefficients. The authors construct two quantum objects for this problem, which they call the nonstandard quantum group and nonstandard Hecke algebra. They show that the nonstandard quantum group has a compact real form and its representations are completely reducible, that the nonstandard Hecke algebra is semisimple, and that they satisfy an analog of quantum Schur-Weyl duality.

Corporate Social Responsibility James Weber 2018-05-14 Volume Two of Business and Society 360 focuses on research drawn from work grounded in "corporate social responsibility" and "corporate citizenship."

Polynomial Approximation on Polytopes Vilmos Totik 2014-09-29 Polynomial approximation on convex polytopes in is considered in uniform and -norms. For an appropriate modulus of smoothness matching direct and converse estimates are proven. In the -case so called strong direct and converse results are also verified. The equivalence of the moduli of smoothness with an appropriate -functional follows as a consequence. The results solve a problem that was left open since the mid 1980s when some of the present findings were established for special, so-called simple polytopes.

Cohomology for Quantum Groups via the Geometry of the Nullcone Christopher P. Bendel 2014-04-07

A Learning Profession? Wendy Robinson 2014-07-11 This ground-breaking book uncovers a hidden history of the professional develop¬ment of serving teachers. Drawing on hitherto unpublished archive material, Wendy Robinson reveals an op¬timistic and liberal age of high class conferences in the 1920s and 1930s, in Lon¬don hotels and Oxford colleges, free from government control, where teachers from across the country and abroad, gathered for professional, intellectual and cultural 'refreshment'. The status attached to these occasions was signified by the celebrities who graced them, including royalty, public intellectuals, educational practitioners and politicians. Professor Robinson then shows how post-war training became more instrumental, taken over by the Ministry of Education with its centrally-prescribed advanced courses, and, from 1970, by Local Education Authorities' invention of ap¬parently democratic Teachers' Centres. This analysis is complemented by face-to-face interviews with teachers and other practitioners once active in professional development. Fascinating, detailed inter¬views brilliantly capture teachers' lived experience of professional development and its influence on their teaching, career development and professional identity. Fresh and original, lucidly written by one of the leading historians of education in Britain, A Learning Profession? is essential and engaging reading for those inter¬ested in the development of a teaching profession.

How Data Happened: A History from the Age of Reason to the Age of Algorithms Chris Wiggins 2023-03-21 A sweeping history of data and its technical, political, and ethical impact on our world. From facial recognition—capable of checking people into flights or identifying undocumented residents—to automated decision systems that inform who gets loans and who receives bail, each of us moves through a world determined by data-empowered algorithms. But these technologies didn't just appear: they are part of a history that goes back centuries, from the census enshrined in the US Constitution to the birth of eugenics in Victorian Britain to the development of Google search. Expanding on the popular course they created at Columbia University, Chris Wiggins and Matthew L. Jones illuminate the ways in which data has long been used as a tool and a weapon in arguing for what is true, as well as a means of rearranging or defending power. They explore how data was created and curated, as well as how new mathematical and computational techniques developed to

contend with that data serve to shape people, ideas, society, military operations, and economies. Although technology and mathematics are at its heart, the story of data ultimately concerns an unstable game among states, corporations, and people. How were new technical and scientific capabilities developed; who supported, advanced, or funded these capabilities or transitions; and how did they change who could do what, from what, and to whom? Wiggins and Jones focus on these questions as they trace data's historical arc, and look to the future. By understanding the trajectory of data—where it has been and where it might yet go—Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose, with intentionality and purpose.

Early Childhood Studies Jane Johnston 2018-02-16 This fully updated new edition offers a comprehensive, accessible, yet rigorous introduction to the study of Early Childhood that will will add value to any Early Childhood Studies course at both foundation and degree level. Addressing both care and education in the Early Years, the book considers a range of multi-disciplinary aspects of Early Childhood; including health, social, educational, psychological and sociological perspectives. Early Childhood Studies engages the reader by providing real-world examples that underpin theoretical perspectives and bring examples to life, while encouraging practitioners to engage in reflective practice by considering their own similar experiences. Key features include: Engaging activities and case studies that bring theory to life Cutting-edge research Practical tasks and advice with points for further reading End of chapter summaries, Reflective Tasks and Study Skills boxes in each chapter Full colour illustrations throughout This core introductory textbook is an indispensable resource for Early Years' students and professionals, whatever their level of expertise or experience.

Elliptic PDEs on Compact Ricci Limit Spaces and Applications Shouhei Honda 2018-05-29 In this paper the author studies elliptic PDEs on compact Gromov-Hausdorff limit spaces of Riemannian manifolds with lower Ricci curvature bounds. In particular the author establishes continuities of geometric quantities, which include solutions of Poisson's equations, eigenvalues of Schrödinger operators, generalized Yamabe constants and eigenvalues of the Hodge Laplacian, with respect to the Gromov-Hausdorff topology. The author applies these to the study of second-order differential calculus on such limit spaces.

Physical Science National Learning Corporation 2018 The DSST Physical Science Passbook(R) prepares candidates for the DSST exam, which enables schools to award credit for knowledge acquired outside the normal classroom environment. It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: physics; electricity and magnetism; Glossyr; chemical reactions; atomic structure; and more.

A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials Florica C. Cîrstea 2014-01-08

Open Science by Design National Academies of Sciences, Engineering, and Medicine 2018-08-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise. The advent of scientific

journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space, using the technologies of that era to generate reliable knowledge more quickly and efficiently. Harnessing today's stunning, ongoing advances in information technologies, the global research enterprise and its stakeholders are moving toward a new open science ecosystem. Open science aims to ensure the free availability and usability of scholarly publications, the data that result from scholarly research, and the methodologies, including code or algorithms, that were used to generate those data. Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise. This report explores specific examples of open science and discusses a range of challenges, focusing on stakeholder perspectives. It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps.

Convergence National Research Council 2014-06-16 Convergence of the life sciences with fields including physical, chemical, mathematical, computational, engineering, and social sciences is a key strategy to tackle complex challenges and achieve new and innovative solutions. However, institutions face a lack of guidance on how to establish effective programs, what challenges they are likely to encounter, and what strategies other organizations have used to address the issues that arise. This advice is needed to harness the excitement generated by the concept of convergence and channel it into the policies, structures, and networks that will enable it to realize its goals. Convergence investigates examples of organizations that have established mechanisms to support convergent research. This report discusses details of current programs, how organizations have chosen to measure success, and what has worked and not worked in varied settings. The report summarizes the lessons learned and provides organizations with strategies to tackle practical needs and implementation challenges in areas such as infrastructure, student education and training, faculty advancement, and inter-institutional partnerships.

The Grothendieck Inequality Revisited Ron Blei 2014-09-29 The classical Grothendieck inequality is viewed as a statement about representations of functions of two variables over discrete domains by integrals of two-fold products of functions of one variable. An analogous statement is proved, concerning continuous functions of two variables over general topological domains. The main result is the construction of a continuous map Φ from $l^2(A)$ into $L^2(\Omega_A, \mathbb{P}_A)$, where A is a set, $\Omega_A = \{-1,1\}^A$, and $\mathbb{P}_A$ is the uniform probability measure on Ω_A.

The Formative Years of Relativity Hanoch Gutfreund 2017-09-08 First published in 1922 and based on lectures delivered in May 1921, Albert Einstein’s The Meaning of Relativity offered an overview and explanation of the then new and controversial theory of relativity. The work would go on to become a monumental classic, printed in numerous editions and translations worldwide. Now, The Formative Years of Relativity introduces Einstein’s masterpiece to new audiences. This beautiful volume contains Einstein’s insightful text, accompanied by important historical materials and

commentary looking at the origins and development of general relativity. Hanoch Gutfreund and Jürgen Renn provide fresh, original perspectives, placing Einstein's achievements into a broader context for all readers. In this book, Gutfreund and Renn tell the rich story behind the early reception, spread, and consequences of Einstein's ideas during the formative years of general relativity in the late 1910s and 1920s. They show that relativity's meaning changed radically throughout the nascent years of its development, and they describe in detail the transformation of Einstein's work from the esoteric pursuit of one individual communicating with a handful of colleagues into the preoccupation of a growing community of physicists, astronomers, mathematicians, and philosophers. This handsome edition quotes extensively from Einstein's correspondence and reproduces historical documents such as newspaper articles and letters. Inserts are featured in the main text giving concise explanations of basic concepts, and short biographical notes and photographs of some of Einstein's contemporaries are included. The first-ever English translations of two of Einstein's popular Princeton lectures are featured at the book's end.

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, Mehdi 2014-07-31 "This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

Imaginary Schur-Weyl Duality Alexander Kleshchev 2017-01-18 The authors study imaginary representations of the Khovanov-Lauda-Rouquier algebras of affine Lie type. Irreducible modules for such algebras arise as simple heads of standard modules. In order to define standard modules one needs to have a cuspidal system for a fixed convex preorder. A cuspidal system consists of irreducible cuspidal modules—one for each real positive root for the corresponding affine root system X, as well as irreducible imaginary modules—one for each $\mathbb{Z}$-multiplication. The authors study imaginary modules by means of "imaginary Schur-Weyl duality" and introduce an imaginary analogue of tensor space and the imaginary Schur algebra. They construct a projective generator for the imaginary Schur algebra, which yields a Morita equivalence between the imaginary and the classical Schur algebra, and construct imaginary analogues of Gelfand-Graev representations, Ringel duality and the Jacobi-Trudy formula.

Semicrossed Products of Operator Algebras by Semigroups Kenneth R. Davidson 2017-04-25 The authors examine the semicrossed products of a semigroup action by $\mathbb{Z}^+$-endomorphisms on a C*-algebra, or more generally of an action on an arbitrary operator algebra by completely contractive endomorphisms. The choice of allowable representations affects the corresponding universal algebra. The authors seek quite general conditions which will allow them to show that the C*-envelope of the semicrossed product is (a full corner of) a crossed product of an auxiliary C*-algebra by a group action. Their analysis concerns a case-by-case dilation theory on covariant pairs. In the process we determine the C*-envelope for various semicrossed products of (possibly nonselfadjoint) operator algebras by spanning cones

and lattice-ordered abelian semigroups.

Operator Theory, Operator Algebras, and Applications Alejandro D. de Acosta 2014-03-05

Nonlinear Stability of Ekman Boundary Layers in Rotating Stratified Fluids Hajime Koba 2014-03-05 A stationary solution of the rotating Navier-Stokes equations with a boundary condition is called an Ekman boundary layer. This book constructs stationary solutions of the rotating Navier-Stokes-Boussinesq equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon. The author calls such stationary solutions Ekman layers. This book shows the existence of a weak solution to an Ekman perturbed system, which satisfies the strong energy inequality. Moreover, the author discusses the uniqueness of weak solutions and computes the decay rate of weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters. The author also shows that there exists a unique global-in-time strong solution of the perturbed system when the initial datum is sufficiently small. Comparing a weak solution satisfying the strong energy inequality with the strong solution implies that the weak solution is smooth with respect to time when time is sufficiently large.

Near Soliton Evolution for Equivariant Schrödinger Maps in Two Spatial Dimensions Ioan Bejenaru, University of California, San Diego, La Jolla, CA, and Daniel Tataru, University of California, Berkeley, Berkeley, CA Ioan Bejenaru 2014-03-05 The authors consider the Schrödinger Map equation in 2+1 dimensions, with values into \mathbb{S}^2. This admits a lowest energy steady state Q, namely the stereographic projection, which extends to a two dimensional family of steady states by scaling and rotation. The authors prove that Q is unstable in the energy space \dot H^1. However, in the process of proving this they also show that within the equivariant class Q is stable in a stronger topology X \subset \dot H^1.

Irreducible Almost Simple Subgroups of Classical Algebraic Groups Timothy C. Burness 2015-06-26 Let be a simple classical algebraic group over an algebraically closed field of characteristic with natural module . Let be a closed subgroup of and let be a nontrivial -restricted irreducible tensor indecomposable rational -module such that the restriction of to is irreducible. In this paper the authors classify the triples of this form, where and is a disconnected almost simple positive-dimensional closed subgroup of acting irreducibly on . Moreover, by combining this result with earlier work, they complete the classification of the irreducible triples where is a simple algebraic group over , and is a maximal closed subgroup of positive dimension.

Special Values of the Hypergeometric Series Akihito Ebisu 2017-07-13 In this paper, the author presents a new method for finding identities for hypergeoemtric series, such as the (Gauss) hypergeometric series, the generalized hypergeometric series and the Appell-Lauricella hypergeometric series. Furthermore, using this method, the author gets identities for the hypergeometric series and shows that values of at some points can be expressed in terms of gamma functions, together with certain elementary functions. The author tabulates the values of that can be obtained with this method and finds that this set includes almost all previously known values and many previously unknown values.

Past Reconstruction of the Physical

and Biogeochemical Ocean State Simona Masina 2022-08-04

Imprimitive Irreducible Modules for Finite Quasisimple Groups Gerhard Hiss 2015-02-06 Motivated by the maximal subgroup problem of the finite classical groups the authors begin the classification of imprimitive irreducible modules of finite quasisimple groups over algebraically closed fields K. A module of a group G over K is imprimitive, if it is induced from a module of a proper subgroup of G. The authors obtain their strongest results when char(K)=0, although much of their analysis carries over into positive characteristic. If G is a finite quasisimple group of Lie type, they prove that an imprimitive irreducible KG-module is Harish-Chandra induced. This being true for \rm char(K) different from the defining characteristic of G, the authors specialize to the case char(K)=0 and apply Harish-Chandra philosophy to classify irreducible Harish-Chandra induced modules in terms of Harish-Chandra series, as well as in terms of Lusztig series. The authors determine the asymptotic proportion of the irreducible imprimitive KG-modules, when G runs through a series groups of fixed (twisted) Lie type. One of the surprising outcomes of their investigations is the fact that these proportions tend to 1, if the Lie rank of the groups tends to infinity. For exceptional groups G of Lie type of small rank, and for sporadic groups G, the authors determine all irreducible imprimitive KG-modules for arbitrary characteristic of K.

Hacking Wireless Access Points Jennifer Kurtz 2016-12-08 Hacking Wireless Access Points: Cracking, Tracking, and Signal Jacking provides readers with a deeper understanding of the hacking threats that exist with mobile phones, laptops, routers, and navigation systems. In addition, applications for Bluetooth and near field communication (NFC) technology continue to multiply, with athletic shoes, heart rate monitors, fitness sensors, cameras, printers, headsets, fitness trackers, household appliances, and the number and types of wireless devices all continuing to increase dramatically. The book demonstrates a variety of ways that these vulnerabilities can be—and have been—exploited, and how the unfortunate consequences of such exploitations can be mitigated through the responsible use of technology. Explains how the wireless access points in common, everyday devices can expose us to hacks and threats Teaches how wireless access points can be hacked, also providing the techniques necessary to protect and defend data Presents concrete examples and real-world guidance on how to protect against wireless access point attacks

A Homology Theory for Smale Spaces Ian F. Putnam 2014-09-29 The author develops a homology theory for Smale spaces, which include the basics sets for an Axiom A diffeomorphism. It is based on two ingredients. The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite-to-one factor map. The second is Krieger's dimension group invariant for shifts of finite type. He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups. The existence of such a theory was proposed by Bowen in the 1970s.