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It is intended for graduate students in mathematics/theoretical physics who are new to the field of noncommutative geometry, as well as for researchers in mathematics/theoretical physics with an interest in the physical applications of noncommutative geometry. In the first part, we introduce the main concepts and techniques by studying finite noncommutative spaces, providing a "light" approach to noncommutative geometry. We then proceed with the general framework by defining and analyzing noncommutative spin manifolds and deriving some main results on them, such as the local index formula. In the second part, we show how noncommutative spin manifolds naturally give rise to gauge theories, applying this principle to specific examples. We subsequently geometrically derive abelian and non-abelian Yang-Mills gauge theories, and eventually the full Standard Model of particle physics, and conclude by explaining how noncommutative geometry might indicate how to proceed beyond the Standard Model. Imaginary Schur-Weyl Duality** *American Mathematical Soc.* **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 -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. Applied Multivariate Statistical Analysis (Classic Version)** *Pearson* **This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit www.pearsonhighered.com/math-classics-series for a complete list of titles. For courses in Multivariate Statistics, Marketing Research, Intermediate Business Statistics, Statistics in Education, and graduate-level courses in Experimental Design and Statistics. Appropriate for experimental scientists in a variety of disciplines, this market-leading text offers a readable introduction to the statistical analysis of multivariate observations. Its primary goal is to impart the knowledge necessary to make proper interpretations and select appropriate techniques for analyzing multivariate data. Ideal for a junior/senior or graduate level course that explores the statistical methods for describing and analyzing multivariate data, the text assumes two or more statistics courses as a prerequisite. Mathematics Higher Level (core) Mathematics HL** *Damaris Publishing* **This book provides practical support and guidance to help IB Diploma Programme students prepare for their mathematics HL exams. Statistical Methods in Quantum Optics 1 Master Equations and Fokker-Planck Equations** *Springer Science & Business Media* **This is the first of a two-volume presentation on current research problems in quantum optics, and will serve as a standard reference in the field for many years to come. 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From one point of view, it presents the infinitesimal calculus of the twentieth century with the ultimate integral calculus (measure theory) and the ultimate differential calculus (distribution theory). From another, it shows the triumph of abstract spaces: topological spaces, Banach and Hilbert spaces, measure spaces, Riesz spaces, Polish spaces, locally convex spaces, Fréchet spaces, Schwartz space, and spaces. Finally it is the study of big techniques, including the Fourier series and transform, dual spaces, the Baire category, fixed point theorems, probability ideas, and Hausdorff dimension. Applications include the constructions of nowhere differentiable functions, Brownian motion, space-filling curves, solutions of the moment problem, Haar measure, and equilibrium measures in potential theory. 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Written by an experienced, practising IB English teacher, this new title is an in-depth and accessible guide for Standard and Higher Level students of the new Language A Language and Literature syllabus for the IB Diploma. This lively, well structured coursebook is available in both print and e-book formats and includes: key concepts in studying language and literature; text extracts from World literature (in English and in translation); international media and language sources; a wide variety of activities to build skills; materials for exam preparation; guidance on assessment; Theory of Knowledge links; and Extended essay opportunities. Oxford IB Diploma Programme: IB Prepared: Chemistry (Online) Offering an unparalleled level of assessment support, IB Prepared: Chemistry has been developed directly with the IB to provide the most up-to-date, authentic and authoritative guidance on DP assessment. 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With chapters contributed by respected experts in this field, the book offers vital insights into colposcopy and an essential guide to comprehensive strategies for the early detection of cervical cancer. The main text is complemented by ample illustrations for clarity and a better understanding of the subject. Case discussions on various clinical scenarios will further ensure good clinical practices, which will in turn translate into reduced risk of cervical cancer. Thermodynamics and an Introduction to Thermostatistics** *John Wiley & Sons* **The only text to cover both thermodynamic and statistical mechanics--allowing students to fully master thermodynamics at the macroscopic level. Presents essential ideas on critical phenomena developed over the last decade in simple, qualitative terms. This new edition maintains the simple structure of the first and puts new emphasis on pedagogical considerations. 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Quantum Field Theory is an exceptional textbook for graduate students familiar with advanced quantum mechanics as well as physicists with an interest in theoretical physics. It features: * Coverage of quantum electrodynamics with practical calculations and a discussion of perturbative renormalization * A discussion of the Feynman path integrals and a host of current subjects, including the physical approach to renormalization, spontaneous symmetry breaking and superfluidity, and topological excitations * Nineteen self-contained chapters with exercises, supplemented with graphs and charts Oxford IB Diploma Programme: IB Prepared: Biology Offering an unparalleled level of assessment support, IB Prepared: Biology has been developed directly with the IB to provide the most up-to-date, authentic and authoritative guidance on DP assessment. 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