Anastasios Mallios
Elias Zafiris

Differential Sheaves and Connections
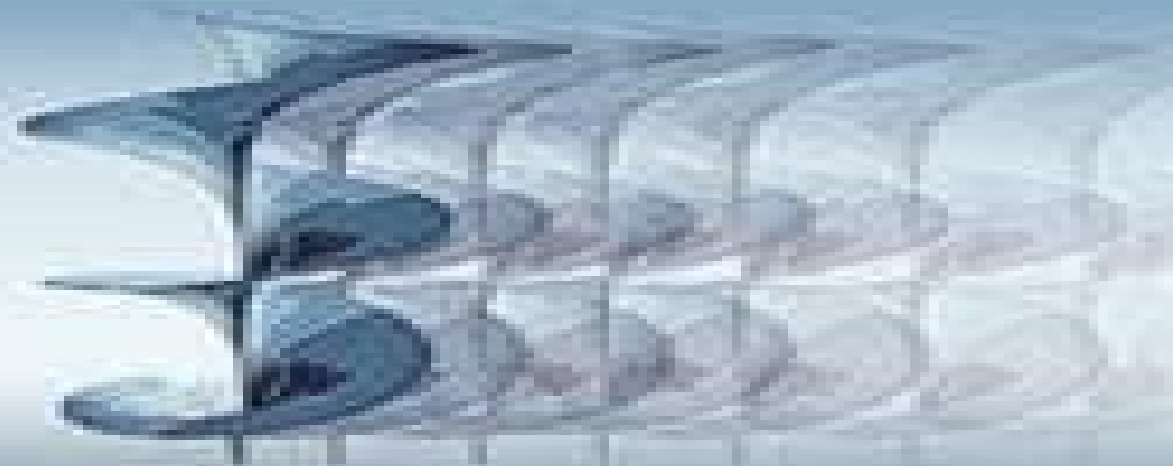
A Natural Approach to Physical Geometry

Differential Sheaves And Connections A Natural Approach To Physical Geometry

George A Anastassiou

Differential Sheaves And Connections A Natural Approach To Physical Geometry:

   Differential Sheaves And Connections: A Natural Approach To Physical Geometry Anastasios Mallios,Elias Zafiris,2015-09-17 This unique book provides a self contained conceptual and technical introduction to the theory of differential sheaves This serves both the newcomer and the experienced researcher in undertaking a background independent natural and relational approach to physical geometry In this manner this book is situated at the crossroads between the foundations of mathematical analysis with a view toward differential geometry and the foundations of theoretical physics with a view toward quantum mechanics and quantum gravity The unifying thread is provided by the theory of adjoint functors in category theory and the elucidation of the concepts of sheaf theory and homological algebra in relation to the description and analysis of dynamically constituted physical geometric spectrums   **100 Years of Chronogeometrodynamics: The Status of the Einstein's Theory of Gravitation in Its Centennial Year** Lorenzo Iorio,Elias C. Vagenas,2018-07-10 This book is a printed edition of the Special Issue 100 Years of Chronogeometrodynamics the Status of the Einstein s Theory of Gravitation in Its Centennial Year that was published in Universe   *Concept and Formalization of Constellatory Self-Unfolding* Albrecht von Müller,Elias Zafiris,2018-05-29 This volume offers a fundamentally different way of conceptualizing time and reality Today we see time predominantly as the linear sequential order of events and reality accordingly as consisting of facts that can be ordered along sequential time But what if this conceptualization has us mistaking the exhausts for the real thing i e if we miss the best the actual taking place of reality as it occurs in a very differently structured primordial form of time the time space of the present In this new conceptual framework both the sequential aspect of time and the factual aspect of reality are emergent phenomena that come into being only after reality has actually taken place In the new view facts are just the traces that the actual taking place of reality leaves behind on the co emergent canvas of local spacetime Local spacetime itself emerges only as facts come into being and only facts can be adequately localized in it But how does reality then actually occur It is conceived as a constellatory self unfolding characterized by strong self referentiality and taking place in the primordial form of time the not yet sequentially structured time space of the present Time is seen here as an ontophainetic platform i e as the stage on which reality can first occur This view of time and thus also space seems to be very much in accordance with what we encounter in quantum physics before the so called collapse of the wave function In parallel classical and relativistic physics largely operate within the factual portrait of reality and the sequential aspect of time respectively Only singularities constitute an important exemption here the canvas of local spacetime that emerged together with factization melts down again In the novel framework quantum reduction and singularities can be seen and addressed as inverse transitions In quantum physical state reduction reality gains the chrono ontological format of facticity and the sequential aspect of time becomes applicable In singularities by contrast the inverse happens Reality loses its local spacetime formation and reverts back into its primordial

pre local shape making in this way the use of causality relations Boolean logic and the dichotomization of subject and object obsolete For our understanding of the relation between quantum and relativistic physics this new view opens up fundamentally new perspectives Both are legitimate views of time and reality they just address very different chrono ontological portraits and thus should not lead us to erroneously subjugating one view under the other The task of the book is to provide a formal framework in which this radically different view of time and reality can be addressed properly The mathematical approach is based on the logical and topological features of the Borromean Rings It draws upon concepts and methods of algebraic and geometric topology especially the theory of sheaves and links group theory logic and information theory in relation to the standard constructions employed in quantum mechanics and general relativity shedding new light on the pestilential problems of their compatibility The intended audience includes physicists mathematicians and philosophers with an interest in the conceptual and mathematical foundations of modern physics **Stochastic Models With Applications To Genetics, Cancers, Aids And Other Biomedical Systems (Second Edition)** Wai-yuan Tan,2015-10-28 This book presents a systematic treatment of Markov chains diffusion processes and state space models as well as alternative approaches to Markov chains through stochastic difference equations and stochastic differential equations It illustrates how these processes and approaches are applied to many problems in genetics carcinogenesis AIDS epidemiology and other biomedical systems One feature of the book is that it describes the basic MCMC Markov chain and Monte Carlo procedures and illustrates how to use the Gibbs sampling method and the multilevel Gibbs sampling method to solve many problems in genetics carcinogenesis AIDS and other biomedical systems As another feature the book develops many state space models for many genetic problems carcinogenesis AIDS epidemiology and HIV pathogenesis It shows in detail how to use the multilevel Gibbs sampling method to estimate or predict simultaneously the state variables and the unknown parameters in cancer chemotherapy carcinogenesis AIDS epidemiology and HIV pathogenesis As a matter of fact this book is the first to develop several state space models for many genetic problems carcinogenesis and other biomedical problems To emphasize special applications to medical problems in this new edition the book has added a new chapter to illustrate how to develop biologically supported stochastic models and state space models of carcinogenesis in human beings Specific examples include hidden Markov models and state space models for human colon cancer human liver cancer and some human pediatric cancers such as retinoblastoma and hepatoblastoma The book also gives examples to illustrate how to develop procedures to assess cancer risk of environmental agents through initiation promotion protocols **Space, Time and the Limits of Human Understanding** Shyam Wuppuluri,Giancarlo Ghirardi,2016-12-01 In this compendium of essays some of the world s leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline With an epilogue on the limits of human understanding this volume hosts contributions from six or more diverse fields It presumes only rudimentary background knowledge on the part of the reader Time and again through the prism of intellect humans

have tried to diffract reality into various distinct yet seamless atomic yet holistic independent yet interrelated disciplines and have attempted to study it contextually Philosophers debate the paradoxes or engage in meditations dialogues and reflections on the content and nature of space and time Physicists too have been trying to mold space and time to fit their notions concerning micro and macro worlds Mathematicians focus on the abstract aspects of space time and measurement While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time computer scientists theoretically and practically try to optimize the space time complexities in storing and retrieving data information The list is never ending Linguists logicians artists evolutionary biologists geographers etc all are trying to weave a web of understanding around the same duo However our endeavour into a world of such endless imagination is restrained by intellectual dilemmas such as Can humans comprehend everything Are there any limits Can finite thought fathom infinity We have sought far and wide among the best minds to furnish articles that provide an overview of the above topics We hope that through this journey a symphony of patterns and tapestry of intuitions will emerge providing the reader with insights into the questions What is Space What is Time Chapter 15 of this book is available open access under a CC BY 4 0 license

Liberating Sociology: From Newtonian Toward Quantum Imaginations: Volume 1: Unriddling the Quantum Enigma Mohammad H. Tamdgidi,2020-01-20 In this major new study in the sociology of scientific knowledge social theorist Mohammad H Tamdgidi reports having unriddled the so called quantum enigma This book opens the lid of the Schr dinger s Cat box of the quantum enigma after decades and finds something both odd and familiar Not only the cat is both alive and dead it has morphed into an elephant in the room in whose interpretation Einstein Bohr Bohm and others were each both right and wrong because the enigma has acquired both localized and spread out features whose unriddling requires both physics and sociology amid both transdisciplinary and transcultural contexts The book offers in a transdisciplinary and transcultural sociology of self knowledge framework a relativistic interpretation to advance a liberating quantum sociology Deeper methodological grounding to further advance the sociological imagination requires investigating whether and how relativistic and quantum scientific revolutions can induce a liberating reinvention of sociology in favor of creative research and a just global society This however necessarily leads us to confront an elephant in the room the quantum enigma In Unriddling the Quantum Enigma the first volume of the series commonly titled Liberating Sociology From Newtonian toward Quantum Imaginations sociologist Mohammad H Tamdgidi argues that unriddling the quantum enigma depends on whether and how we succeed in dehabituating ourselves in favor of unified relativistic and quantum visions from the historically and ideologically inherited classical Newtonian modes of imagining reality that have subconsciously persisted in the ways we have gone about posing and interpreting or not the enigma itself for more than a century Once this veil is lifted and the enigma unriddled he argues it becomes possible to reinterpret the relativistic and quantum ways of imagining reality including social reality in terms of a unified nonreductive creative dialectic of part and whole that fosters quantum

sociological imaginations methods theories and practices favoring liberating and just social outcomes The essays in this volume develop a set of relativistic interpretive solutions to the quantum enigma Following a survey of relevant studies and an introduction to the transdisciplinary and transcultural sociology of self knowledge framing the study overviews of Newtonianism relativity and quantum scientific revolutions the quantum enigma and its main interpretations to date are offered They are followed by a study of the notion of the wave particle duality of light and the various experiments associated with the quantum enigma in order to arrive at a relativistic interpretation of the enigma one that is shown to be capable of critically cohering other offered interpretations The book concludes with a heuristic presentation of the ontology epistemology and methodology of what Tamdgidi calls the creative dialectics of reality The volume essays involve critical comparative integrative reflections on the relevant works of founding and contemporary scientists and scholars in the field This study is the first in the monograph series Tayyebeh Series in East West Research and Translation of Human Architecture Journal of the Sociology of Self Knowledge XIII 2020 published by OKCIR Omar Khayyam Center for Integrative Research in Utopia Mysticism and Science Utopystics OKCIR is dedicated to exploring in a simultaneously world historical and self reflective framework the human search for a just global society It aims to develop new conceptual methodological theoretical historical practical pedagogical inspirational and disseminative structures of knowledge whereby the individual can radically understand and determine how world history and her his selves constitute one another Reviews Mohammad H Tamdgidi s Liberating Sociology From Newtonian Toward Quantum Imaginations Volume 1 Unriddling the Quantum Enigma hits the proverbial nail on the head of an ongoing problem not only in sociology but also much social science namely many practitioners allegiance consciously or otherwise to persisting conceptions of science that get in the way of scientific and other forms of theoretical advancement Newtonianism has achieved the status of an idol and its methodology a fetish the consequence of which is an ongoing failure to think through important problems of uncertainty indeterminacy multivariation multidisciplinarity and false dilemmas of individual agency versus structure among many others Tamdgidi has done great service to social thought by bringing to the fore this problem of disciplinary decadence and offering in effect a call for its teleological suspension thinking beyond disciplinarity through drawing upon and communicating with the resources of quantum theory not as a fetish but instead as an opening for other possibilities of social including human understanding The implications are far reaching as they offer as the main title attests liberating sociology from persistent epistemic shackles and thus many disciplines and fields connected to things social This is exciting work A triumph The reader is left with enthusiasm for the second volume and theorists of many kinds with proverbial work to be done Professor Lewis R Gordon Honorary President of the Global Center for Advanced Studies and author of Disciplinary Decadence Living Thought in Trying Times Routledge Paradigm 2006 and Freedom Justice and Decolonization Routledge forthcoming 2020 Social sciences are still using metatheoretical models of science based on 19th century newtonian concepts of time and space Mohammad H

Tamdgidi has produced a tour de force in social theory leaving behind the old newtonian worldview that still informs the social sciences towards a 21st century non dualistic non reductionist transcultural transdisciplinary post Einsteinian quantum concept of TimeSpace Tamdgidi goes beyond previous efforts done by titans of social theory such as Immanuel Wallerstein and Kyriakos Kontopoulos This book is a quantum leap in the social sciences at large Tamdgidi decolonizes the social sciences away from its Eurocentric colonial foundations bringing it closer not only to contemporary natural sciences but also to its convergence with the old Eastern philosophical and mystical worldviews This book is a masterpiece in social theory for a 21st century decolonial social science A must read Professor Ramon Grosfoguel University of California at Berkeley Tamdgidi s Liberating Sociology succeeds in adding physical structures to the breadth of the world changing vision of C Wright Mills the man who mentored me at Columbia Relativity theory and quantum mechanics can help us to understand the human universe no less than the physical universe Just as my Creating Life Before Death challenges bureaucracy s conformist orientation so does Liberating Sociology liberate the infinite possibilities inherent in us Given our isolation in the Coronavirus era we have time to follow Tamdgidi in his journey into the depth of inner space where few men have gone before It is there that we can gain emotional strength just as Churchill Roosevelt and Mandela empowered themselves That personal development was needed to address not only their own personal problems but also the mammoth problems of their societies We must learn to do the same Bernard Phillips Emeritus Sociology Professor Boston University **Introduction To Matrix Theory: With Applications In Economics And Engineering (Second Edition)** Ferenc Szidarovszky,Sandor Molnar,Mark Molnar,2022-12-19 Linear algebra and matrix theory are among the most important and most frequently applied branches of mathematics They are especially important in solving engineering and economic models where either the model is assumed linear or the nonlinear model is approximated by a linear model and the resulting linear model is examined This book is mainly a textbook that covers a one semester upper division course or a two semester lower division course on the subject The second edition will be an extended and modernized version of the first edition We added some new theoretical topics and some new applications from fields other than economics We also added more difficult exercises at the end of each chapter which require deep understanding of the theoretical issues We also modernized some proofs in the theoretical discussions which give better overview of the study material In preparing the manuscript we also corrected the typos and errors so the second edition will be a corrected extended and modernized new version of the first edition *Bloch-type Periodic Functions: Theory And Applications To Evolution Equations* Yong-kui Chang,Gaston Mandata N'guerekata,Rodrigo Ponce,2022-07-13 This monograph aims to provide for the first time a unified and homogenous presentation of the recent works on the theory of Bloch periodic functions their generalizations and their applications to evolution equations It is useful for graduate students and beginning researchers as seminar topics graduate courses and reference text in pure and applied mathematics physics and engineering **Discrete Approximation Theory** George A

Anastassiou,Merve Kester,2016-09-29 In this monograph we present the authors recent work of the last seven years in Approximation Theory Chapters are self contained and can be read independently and advanced courses can be taught out of this book Here our generalized discrete singular operators are of the following types Picard Gauss Weierstrass and Poisson Cauchy operators We treat both the unitary and non unitary univariate and multivariate cases of these operators which are not necessarily positive operators The book s results are expected to find applications in many areas of pure and applied mathematics and statistics As such it is suitable for researchers graduate students and seminars of related subjects and serves well as an invaluable resource for all science libraries   Functional Equations And Inequalities: Solutions And Stability Results John Michael Rassias,E Thandapani,K Ravi,B V Senthil Kumar,2017-03-20 This volume covers the topic in functional equations in a broad sense and is written by authors who are in this field for the past 50 years It contains the basic notions of functional equations the methods of solving functional equations the growth of functional equations in the last four decades and an extensive reference list on fundamental research papers that investigate the stability results of different types of functional equations and functional inequalities This volume starts by taking the reader from the fundamental ideas to higher levels of results that appear in recent research papers Its step by step expositions are easy for the reader to understand and admire the elegant results and findings on the stability of functional equations   *Trigonometric And Hyperbolic Generated Approximation Theory* George A Anastassiou,2024-11-28 This monograph is a testimony of the impact over Computational Analysis of some new trigonometric and hyperbolic types of Taylor s formulae with integral remainders producing a rich collection of approximations of a very wide spectrum This volume covers perturbed neural network approximations by themselves and with their connections to Brownian motion and stochastic processes univariate and multivariate analytical inequalities both ordinary and fractional Korovkin theory and approximations by singular integrals both univariate and multivariate cases These results are expected to find applications in the many areas of Pure and Applied Mathematics Computer Science Engineering Artificial Intelligence Machine Learning Deep Learning Analytical Inequalities Approximation Theory Statistics Economics amongst others Thus this treatise is suitable for researchers graduate students practitioners and seminars of related disciplines and serves well as an invaluable resource for all Science and Engineering libraries   Advanced Topics On Semilinear Evolution Equations Mouffak Benchohra,Gaston Mandata N'guerekata,Abdelkrim Salim,2025-01-07 Differential evolution equations serve as mathematical representations that capture the progression or transformation of functions or systems as time passes Currently differential equations continue to be an active and thriving area of study with continuous advancements in mathematical methodologies and their practical applications spanning diverse fields such as physics engineering and economics In the late 20th century the notion of Differential Evolution Equations emerged as a distinct field applied to optimization and machine learning challenges Evolution equations hold immense importance in numerous realms of applied mathematics and have experienced notable

prominence in recent times This book delves into the study of several classes of equations aiming to investigate the existence of mild and periodic mild solutions and their properties such as approximate controllability complete controllability and attractivity under various conditions By examining diverse problems involving second order semilinear evolution equations differential and integro differential equations with state dependent delay random effects and functional differential equations with delay and random effects we hope to contribute to the advancement of mathematical knowledge and provide researchers academicians and students with a solid foundation for further exploration in this field Throughout this book we explore different mathematical frameworks employing Fr chet spaces and Banach spaces to provide a comprehensive analysis Our investigation extends beyond traditional solutions encompassing the study of asymptotically almost automorphic mild solutions periodic mild solutions and impulsive integro differential equations These topics shed light on the behavior of equations in both bounded and unbounded domains offering valuable insights into the dynamics of functional evolution equations   *Geometry of Vector Sheaves* Anastasios Mallios,1998 This is the second volume of a two volume monograph which obtains fundamental notions and results of the standard differential geometry of smooth manifolds without using differential calculus Here the sheaf theoretic character is emphasized This has theoretical advantages such as greater perspective clarity and unification but also practical benefits ranging from elementary particle physics via gauge theories and theoretical cosmology differential spaces to non linear PDEs generalized functions Thus more general applications which are no longer smooth in the classical sense can be coped with The treatise might also be construed as a new systematic endeavour to confront the ever increasing notion that the world around us is far from being smooth enough   **Geometry of Principal Sheaves** Efstathios Vassiliou,2006-03-30 The book provides a detailed introduction to the theory of connections on principal sheaves in the framework of Abstract Differential Geometry ADG This is a new approach to differential geometry based on sheaf theoretic methods without use of ordinary calculus This point of view complies with the demand of contemporary physics to cope with non smooth models of physical phenomena and spaces with singularities Starting with a brief survey of the required sheaf theory and cohomology the exposition then moves on to differential triads the abstraction of smooth manifolds and Lie sheaves of groups the abstraction of Lie groups Having laid the groundwork the main part of the book is devoted to the theory of connections on principal sheaves incorporating connections on vector and associated sheaves Topics such as the moduli sheaf of connections classification of principal sheaves curvature flat connections and flat sheaves Chern Weil theory are also treated The study brings to light fundamental notions and tools of the standard differential geometry which are susceptible of the present abstraction and whose role remains unexploited in the classical context because of the abundance of means therein However most of the latter are nonsensical in ADG   *Mathematical Reviews* ,2008   Connections in Classical and Quantum Field Theory L. Mangiarotti,Gennadi? Aleksandrovich Sardanashvili,2000 Geometrical notions and methods play an important role in both classical and quantum field theory and a

connection is a deep structure which apparently underlies the gauge theoretical models This collection of basic mathematical facts about various types of connections provides a detailed description of the relevant physical applications It discusses the modern issues concerning the gauge theories of fundamental interactions This text presents several levels of complexity from the elementary to the advanced and provides a considerable number of exercises The authors have tried to give all the necessary mathematical background thus making the book self contained This book should be useful to graduate students physicists and mathematicians who are interested in the issue of deep interrelations between theoretical physics and geometry **Global Calculus** S. Ramanan,2005 The power that analysis topology and algebra bring to geometry has revolutionised the way geometers and physicists look at conceptual problems Some of the key ingredients in this interplay are sheaves cohomology Lie groups connections and differential operators In Global Calculus the appropriate formalism for these topics is laid out with numerous examples and applications by one of the experts in differential and algebraic geometry Ramanan has chosen an uncommon but natural path through the subject In this almost completely self contained account these topics are developed from scratch The basics of Fourier transforms Sobolev theory and interior regularity are proved at the same time as symbol calculus culminating in beautiful results in global analysis real and complex Many new perspectives on traditional and modern questions of differential analysis and geometry are the hallmarks of the book The book is suitable for a first year graduate course on Global Analysis *Proceedings of the 3rd Panhellenic Congress of Geometry* Efstathios Vassiliou,M. Papatriantafillou,D. Lappas,1998 **Modern Differential Geometry in Gauge Theories** Anastasios Mallios,2006-07-27 This is original well written work of interest Presents for the first time physical field theories written in sheaf theoretic language Contains a wealth of minutely detailed rigorous computations ususally absent from standard physical treatments Author s mastery of the subject and the rigorous treatment of this text make it invaluable **Catalogue of the Trustees, Officers, and Students, of the University ... and of the Grammar and Charity Schools ...** University of Pennsylvania,1877

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