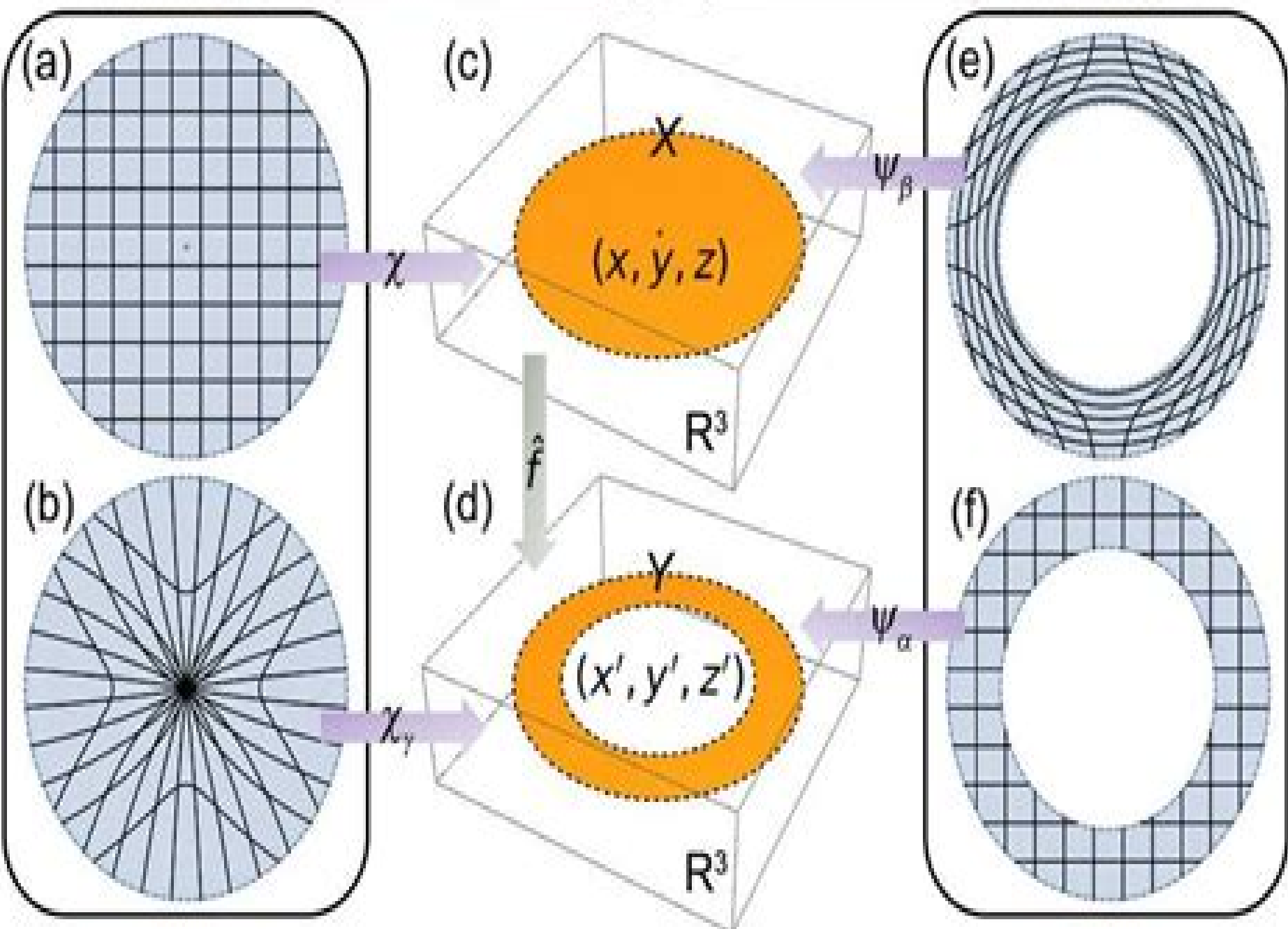


Manifold U $\xrightarrow{f: \mathbf{r} \mapsto \mathbf{r}'}$ Manifold V



Maps Of Invariance

PT Brinkman



Maps Of Invariance:

Continuous And Discontinuous Piecewise-smooth One-dimensional Maps: Invariant Sets And Bifurcation Structures Viktor Avrutin, Laura Gardini, Iryna Sushko, Fabio Tramontana, 2019-05-28 The investigation of dynamics of piecewise smooth maps is both intriguing from the mathematical point of view and important for applications in various fields ranging from mechanical and electrical engineering up to financial markets In this book we review the attracting and repelling invariant sets of continuous and discontinuous one dimensional piecewise smooth maps We describe the bifurcations occurring in these maps border collision and degenerate bifurcations as well as homoclinic bifurcations and the related transformations of chaotic attractors and survey the basic scenarios and structures involving these bifurcations In particular the bifurcation structures in the skew tent map and its application as a border collision normal form are discussed We describe the period adding and incrementing bifurcation structures in the domain of regular dynamics of a discontinuous piecewise linear map and the related bandcount adding and incrementing structures in the domain of robust chaos Also we explain how these structures originate from particular codimension two bifurcation points which act as organizing centers In addition we present the map replacement technique which provides a powerful tool for the description of bifurcation structures in piecewise linear and other form of invariant maps to a much further extent than the other approaches

History of Topology I.M. James, 1999-08-24 Topology for many years has been one of the most exciting and influential fields of research in modern mathematics Although its origins may be traced back several hundred years it was Poincar who gave topology wings in a classic series of articles published around the turn of the century While the earlier history sometimes called the prehistory is also considered this volume is mainly concerned with the more recent history of topology from Poincar onwards As will be seen from the list of contents the articles cover a wide range of topics Some are more technical than others but the reader without a great deal of technical knowledge should still find most of the articles accessible Some are written by professional historians of mathematics others by historically minded mathematicians who tend to have a different viewpoint

Computational, label, and data efficiency in deep learning for sparse 3D data Li, Lanxiao, 2024-05-13 Deep learning is widely applied to sparse 3D data to perform challenging tasks e g 3D object detection and semantic segmentation However the high performance of deep learning comes with high costs including computational costs and the effort to capture and label data This work investigates and improves the efficiency of deep learning for sparse 3D data to overcome the obstacles to the further development of this technology

Invariant Measurement George Engelhard, Jr., Jue Wang, 2024-12-18 This is the second edition of an introductory text that describes the principles of invariant measurement how invariant measurement can be achieved using Rasch measurement theory and how to use invariant measurement to solve a variety of measurement problems in the social behavioral and health sciences Rasch models are used throughout the text but brief comparisons of Rasch models to other item response theory IRT models are also provided Written with students

in mind this new edition was class tested to help maximize accessibility Chapters open with an introduction and close with a discussion and summary All chapters have been updated from the first edition and a new chapter on explanatory Rasch models has been added Features include numerous examples and exercises to demonstrate the main issues addressed in each chapter Key terms are defined when first introduced and included in a helpful end of text glossary This book also benefits from online materials which include the data sets used in the book sample syntax files for running the Facets program Excel files for creating item and person response functions and links to related websites This book will act as a supplementary text for graduate or advanced undergraduate courses on measurement or test theory IRT scaling theory psychometrics advanced measurement techniques research methods or evaluation research taught in education psychology and other social and health sciences It will also appeal to practitioners and researchers in these fields who develop or use scales and instruments Only a basic mathematical level is required including a basic course in statistics ensuring it is an accessible resource for students and researchers alike

Nonlinear Circuit Simulation and Modeling José Carlos Pedro, David E. Root, Jianjun Xu, Luís Côtimos Nunes, 2018-06-14 Discover the nonlinear methods and tools needed to design real world microwave circuits with this tutorial guide Balancing theoretical background with practical tools and applications it covers everything from the basic properties of nonlinear systems such as gain compression intermodulation and harmonic distortion to nonlinear circuit analysis and simulation algorithms and state of the art equivalent circuit and behavioral modeling techniques Model formulations discussed in detail include time domain transistor compact models and frequency domain linear and nonlinear scattering models Learn how to apply these tools to designing real circuits with the help of a power amplifier design example which covers all stages from active device model extraction and the selection of bias and terminations through to performance verification Realistic examples illustrative insights and clearly conveyed mathematical formalism make this an essential learning aid for both professionals working in microwave and RF engineering and graduate students looking for a hands on guide to microwave circuit design

Recent Trends in Nonlinear Analysis Jürgen Appell, 2012-12-06 The book contains a collection of 21 original research papers which report on recent developments in various fields of nonlinear analysis The collection covers a large variety of topics ranging from abstract fields such as algebraic topology functional analysis operator theory spectral theory analysis on manifolds partial differential equations boundary value problems geometry of Banach spaces measure theory variational calculus and integral equations to more application oriented fields like control theory numerical analysis mathematical physics mathematical economy and financial mathematics The book is addressed to all specialists interested in nonlinear functional analysis and its applications but also to postgraduate students who want to get in touch with this important field of modern analysis It is dedicated to Alfonso Vignoli who has essentially contributed to the field on the occasion of his sixtieth birthday

Geometric Control of Patterned Linear Systems Sarah C. Hamilton, Mireille E. Broucke, 2012-04-05 This monograph is aiming at researchers of

systems control especially those interested in multiagent systems distributed and decentralized control and structured systems The book assumes no prior background in geometric control theory however a first year graduate course in linear control systems is desirable Since not all control researchers today are exposed to geometric control theory the book also adopts a tutorial style by way of examples that illustrate the geometric and abstract algebra concepts used in linear geometric control In addition the matrix calculations required for the studied control synthesis problems of linear multivariable control are illustrated via a set of running design examples As such some of the design examples are of higher dimension than one may typically see in a text this is so that all the geometric features of the design problem are illuminated

Invariance and Structural Dependence Jan Odelstad, 2012-12-06 This is a revised version of a doctoral thesis submitted in mimeographed form to the Faculty of Arts Uppsala University 1988 It deals with the notions of structural dependence and independence which are used in many applications of mathematics to science For instance a physical law states that one physical aspect is structurally dependent on one or more other aspects Structural dependence is closely related to the mathematical idea of functional dependence However structural dependence is primarily thought of as a relation holding between aspects rather than between their measures In this book the traditional way of treating aspects within measurement theory is modified An aspect is not viewed as a set theoretical structure but as a function which has sets as arguments and set theoretical structures as values This way of regarding aspects is illustrated with an application to social choice and group decision theory Structural dependence is connected with the idea of concomitant variations and the mathematical notion of invariance This implies that the study of this notion has roots going back to Mill's inductive logic to Klein's Erlangen Program for geometry and to Padoa's method for proving the independence of symbols in formal logic

Recent Advances in Applied Nonlinear Dynamics with Numerical Analysis Changpin Li, 2013 Nonlinear dynamics is still a hot and challenging topic In this edited book we focus on fractional dynamics infinite dimensional dynamics defined by the partial differential equation network dynamics fractal dynamics and their numerical analysis and simulation Fractional dynamics is a new topic in the research field of nonlinear dynamics which has attracted increasing interest due to its potential applications in the real world such as modeling memory processes and materials In this part basic theory for fractional differential equations and numerical simulations for these equations will be introduced and discussed In the infinite dimensional dynamics part we emphasize on numerical calculation and theoretical analysis including constructing various numerical methods and computing the corresponding limit sets etc In the last part we show interest in network dynamics and fractal dynamics together with numerical simulations as well as their applications Neural Dynamics of Adaptive Sensory-Motor Control, 2011-10-10 Neural Dynamics of Adaptive Sensory Motor Control

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