#### MATHEMATICAL REFORMULATION OF THE KOLMOGOROV-RICHARDSON ENERGY CASCADE IN TERMS OF VORTEX STRETCHING

TSUYOSHI YONEDA, SUSUMU GOTO, AND TOMONORI TSURUHASHI

Assumett. In this pages, with the aid of direct sumerical simulations (DNS) of forced turbulence in a periodic domain, we mathematically reformulate the Kolmogorov-Richardson energy cascade in terms of vortex stretching. By using the description, we prove that if the Navier-Stokes flow satisfies a new blowup criterion in terms of the enstrophy production rate, then the flow does not blow up. Our DNS results seem to support this blowup criterion. Next, we mathematically construct the hierarchy of tubular vortices, which is statistically self-similar in the inertial range. Under the assumptions of the scale-locally of the vortex stretching/compressing (i.e. energy cascade) process and the statistical independence between vortices that are not directly stretched or compressed, we can derive the -5/3 power law of the energy spectrum of statistically stationary turbulence without directly using the Kolmogorov hypotheses.

#### 1. INTRODUCTION

Since the seminal study by Orszag and Patterson (1972) [21], the numerical integration (i.e. the direct numerical simulations, DNS) of the Navier-Stokes equation without any turbulence model has been playing important roles in turbulence researches; see Ref. [12] for a review of DNS of turbulence. One of the most important features unveiled by DNS of turbulence is that turbulence is not random but composed of coherent motions. In particular, recent DNS [7, 9, 18, 19] of turbulence at sufficiently high Reynolds numbers have revealed that there exists a hierarchy of coherent vortices in developed turbulence.

In the present study, we investigate the energy cascade picture [23, 5] in turbulence of an incompressible fluid with uniform density and kinematic viscosity  $\nu$  under periodic boundary conditions in three orthogonal directions; and, on the basis of the picture, we develop arguments on the global-in-time smooth solution of the Navier-Stokes equation. Since we need external force to drive flow in a periodic cube, we impose body force f which injects the kinetic energy at a large scale  $\mathcal{L}$ . Here, we define the Reynolds number by

$$(1.1) Re = U \mathcal{L}/\nu$$

with U being the characteristic velocity directly driven by f. When Re is sufficiently high (more concretely, higher than  $O(10^4)$  [4]), turbulence is composed of vortices with various length scales. We reemphasize that these vortices are coherent

i

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# **Mathematical Reformulation Of The Genera**

**David Nelson** 

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Foundations of Computational Intelligence Volume 3 Ajith Abraham, Aboul-Ella Hassanien, Patrick Siarry, Andries Engelbrecht, 2009-04-27 Global optimization is a branch of applied mathematics and numerical analysis that deals with the task of finding the absolutely best set of admissible conditions to satisfy certain criteria objective function s formulated in mathematical terms Global optimization includes nonlinear stochastic and combinatorial programming multiobjective programming control games geometry approximation algorithms for parallel architectures and so on Due to its wide usage and applications it has gained the attention of researchers and practitioners from a plethora of scientific domains Typical practical examples of global optimization applications include Traveling salesman problem and electrical circuit design minimize the path length safety engineering building and mechanical structures mathematical problems Kepler conjecture Protein structure prediction minimize the energy function etc Global Optimization algorithms may be categorized into several types Deterministic example branch and bound methods Stochastic optimization example simulated annealing Heuristics and meta heuristics example evolutionary algorithms etc Recently there has been a growing interest in combining global and local search strategies to solve more complicated optimization problems This edited volume comprises 17 chapters including several overview Chapters which provides an up to date and state of the art research covering the theory and algorithms of global optimization Besides research articles and expository papers on theory and algorithms of global optimization papers on numerical experiments and on real world applications were also encouraged The book is divided into 2 main parts The Origins of International Economics: General equilibrium in international trade Robert William Dimand, 2004 A collection of materials reprinted from various sources The Collected Scientific Papers of Paul A. Samuelson Paul Anthony Samuelson,1972 The col scient pap P A Samuelson Ed R C Merton v 3 The Expanding Worlds of General Relativity Hubert Goenner, Jürgen Renn, Jim Ritter, Tilman Sauer, 1998-12-01 The past decade has seen a considerable surge of interest in historical and philo sophical studies of gravitation and relativity due not only to the tremendous amount of world wide research in general relativity and its theoretical and observational consequences but also to an increasing awareness that a collaboration between working scientists historians and philosophers of science is in this field partic ularly promising for all participants The expanding activity in this field is well documented by recent volumes in this Einstein Studies series on the History of General Relativity as well as by a series of international conferences on this topic at Osgood Hill 1986 Luminy 1988 and Pittsburgh 1991 The fourth of these conferences hosted by the Max Planck Institute for the History of Science was held in Berlin from 31 July to 3 August 1995 with a record attendance of some 80 historians and philosophers of science physicists mathematicians and as tronomers Based on presentations at the Berlin conference this volume provides an overview of the present state of research in this field documenting not only the increasing scope of recent investigations in the history of relativity and gravitation but also the emergence of several key issues that will probably remain at the focus of

debate in the near future RELATIVITY IN THE MAKING The papers of this section deal with the origins and genesis of National Power and the Structure of Foreign Trade Albert Hirschman, 2024-06-14 This study begins relativity theory with a brief survey of economic thought on the relationship between foreign trade and national power from the Mercantilists on Chapter II attempts a systematic theoretical approach to the subject It first makes clear the fundamental basis of the possible use of foreign trade as an instrument of national power policy Using well known concepts of economic analysis it proceeds to show under what conditions and by means of what policies this instrument is likely to attain its highest efficiency The principles of power policy thus deduced theoretically are then compared with the actual practices followed by German trading methods in recent years Toward the end of this chapter the reader will be carried into a detailed discussion of certain problems of the theory of international trade which are touched upon earlier in the chapter Chapter III is applied to the historical background of our problem It gives a survey of the literature on economic aggression before and during World War I and brings out the importance of the Paris Economic Conference of the Allies in 1916 for the Versailles Treaty and postwar economic policies In Chapter IV we review in the light of our theoretical and historical analyses certain safeguards or remedies which could be or have been proposed to prevent the use of foreign trade as an instrument of national power policies Certain questions raised in Part 1 can be answered in quantitative terms Part 2 consists therefore of an exposition of various trends of international trade in recent years disclosed by statistical analysis In Chapter V we calculate an index number expressing the extent to which the trade of the large trading nations is or has been directed by preference toward the smaller trading countries Chapter VI gives index numbers for the degree of concentration of their foreign trade on one or a few big markets or sources of supply Finally in Chapter VII we measure the extent to which world trade has been based primarily on an exchange of manufactures against raw materials and foodstuffs This title is part of UC Press s Voices Revived program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1945 with an expanded edition published in 1980 Dialogue and Learning in Mathematics Education Helle Alrø, Ole Skovsmose, 2006-01-02 Dialogue and Learning in Mathematics Education is concerned with communication in mathematics class rooms In a series of empirical studies of project work we follow students inquiry cooperation as well as students obstructions to inquiry cooperation Both are considered important for a theory of learning mathematics Special attention is paid to the notions of dialogue and critique A central idea is that dialogue supports critical learning of mathematics The link between dialogue and critique is developed further by including the notions of intention and reflection Thus a theory of learning mathematics is developed which is resonant with critical mathematics education **A History of Economic Theory** Aiko Ikeo, Heinz D. Kurz, 2009-05-07 Few economists have been as prolific and wide ranging as Takashi Negishi Part

of the Hicksian generation of Neo Walrasian general equilibrium theorists Negishi rose to prominence during the early 1960s with his work on the Neo Walrasian system Negishi's signature has been his attempt to extend the multi market Neo Walrasian system in several directions to incorporate concerns such as imperfect comptetition stability money trade and unemployment and as a consequence helping to discover and delineate the limits of conventional theory This collection in honour of Takashi Negishi analyses his contributions to the history of economic theory Economists paying tribute within this volume include Neri Salvadori Laurence Moss and Joaquim Silvestre The Penguin Dictionary of Mathematics David Nelson, 2008-10-02 The Penguin Dictionary of Mathematics takes in all branches of pure and applied mathematics from algebra to mechanics and from number theory to statistics Invaluable for students at all levels it is also a useful and versatile source book for economists business people engineers technicians and scientists of all kinds who use mathematics in the course of their work The Oxford Handbook of Generality in Mathematics and the Sciences Karine Chemla, Renaud Chorlay, David Rabouin, 2016 This collection of original essays aims to inquire into the diversity of Generality Through case studies taken from the history of mathematics physics and the life sciences the book provides evidence of different ways of understanding the general in various contexts Gravitation and Spacetime Hans C. Ohanian, Remo Ruffini, 2013-04-08 The third edition of this classic textbook is a quantitative introduction for advanced undergraduates and graduate students It gently guides students from Newton's gravitational theory to special relativity and then to the relativistic theory of gravitation General relativity is approached from several perspectives as a theory constructed by analogy with Maxwell s electrodynamics as a relativistic generalization of Newton's theory and as a theory of curved spacetime. The authors provide a concise overview of the important concepts and formulas coupled with the experimental results underpinning the latest research in the field Numerous exercises in Newtonian gravitational theory and Maxwell s equations help students master essential concepts for advanced work in general relativity while detailed spacetime diagrams encourage them to think in terms of four dimensional geometry Featuring comprehensive reviews of recent experimental and observational data the text concludes with chapters on cosmology and the physics of the Big Bang and inflation Man and the Social Sciences (Routledge Revivals) William Alexander Robson, 2014-02-04 One of the most significant movements in the world of learning in the twentieth century was the rise and development of the social sciences However few attempts have been made to see how far social scientists have travelled on the road to studying and understanding human society First published in 1972 the lectures reprinted in this book aim to trace the development of the social sciences during the twentieth century and to show the role of the London School of Economics and Political Science in this development since it was founded in 1895 Each of the very distinguished lecturers was asked to take the larger view to be critical where necessary to treat his subject in the context of the world of learning The result is a survey of exceptional interest in which the growth of the social sciences is analysed from a number of contrasting viewpoints each of which ranges widely and often with provocative brilliance over

themes that are of general concern The introduction by Professor W A Robson which was not part of the original lecture series is in itself a critical assessment of the field that will be read with close attention The Invisible Power of Mathematics Giovanni Samaey, Joos P. L. Vandewalle, 2023-03-15 How does homebanking work How are board games developed How reliable can wind energy get How do we discover forged paintings Do smart girls stay single How dangerous can a bioterrorist get In all these questions and many others mathematics plays a crucial role in the search for an answer This book tells the story behind twenty of these questions This is explicitly not a mathematics book but a book about the crucial role that mathematics plays in devising the creative solutions the world needs The questions are divided into three categories home garden and kitchen mathematics mathematics for the workplace and mathematics for tomorrow s society The themes illustrate not only the incredibly broad applicability of mathematics in the world around us but also the great diversity of useful mathematical techniques Mathematics and Scientific Representation Christopher Pincock, 2012-01-13 Mathematics plays a central role in much of contemporary science but philosophers have struggled to understand what this role is or how significant it might be for mathematics and science Pincock tackles this perennial question by asking how mathematics contributes to the success of our best scientific representations EPSA Philosophical Issues in the Sciences Mauricio Suárez, Mauro Dorato, Miklós Rédei, 2010-07-17 This volume collects papers presented at the Founding Conference of the European Philosophy of Science Association meeting held November 2007 It provides an excellent overview of the state of the art in philosophy of science in different European countries The Palgrave Companion to Chicago Economics Robert A. Cord, 2023-01-01 The University of Chicago has been and continues to be one of the most important global centres for economics With six chapters on themes in Chicago economics and 33 chapters on the lives and work of Chicago economists this volume shows how economics became established at the University how it produced some of the world's best known economists including Frank Knight Milton Friedman and Robert Lucas and how it remains a global force for the very best in teaching and research in economics With original contributions from a stellar cast this volume provides economists especially those interested in macroeconomics and the history of economic thought with an in depth analysis of Chicago **Iconicity and Abduction** Gianluca Caterina, Rocco Gangle, 2016-09-13 This book consolidates and extends economics the authors work on the connection between iconicity and abductive inference It emphasizes a pragmatic experimental and fallibilist view of knowledge without sacrificing formal rigor Within this context the book focuses particularly on scientific knowledge and its prevalent use of mathematics To find an answer to the question What kind of experimental activity is the scientific employment of mathematics the book addresses the problems involved in formalizing abductive cognition For this it implements the concept and method of iconicity modeling this theoretical framework mathematically through category theory and topoi Peirce's concept of iconic signs is treated in depth and it is shown how Peirce's diagrammatic logical notation of Existential Graphs makes use of iconicity and how important features of this iconicity are representable within

category theory Alain Badiou s set theoretical model of truth procedures and his relational sheaf based theory of phenomenology are then integrated within the Peircean logical context Finally the book opens the path towards a more naturalist interpretation of the abductive models developed in Peirce and Badiou through an analysis of several recent attempts to reformulate quantum mechanics with categorical methods Overall the book offers a comprehensive and rigorous overview of past approaches to iconic semiotics and abduction and it encompasses new extensions of these methods towards an innovative naturalist interpretation of abductive reasoning Optimization and Control for Systems in the Big-Data Era Tsan-Ming Choi, Jianjun Gao, James H. Lambert, Chi-Kong Ng, Jun Wang, 2017-05-04 This book focuses on optimal control and systems engineering in the big data era It examines the scientific innovations in optimization control and resilience management that can be applied to further success In both business operations and engineering applications there are huge amounts of data that can overwhelm computing resources of large scale systems This big data provides new opportunities to improve decision making and addresses risk for individuals as well in organizations While utilizing data smartly can enhance decision making how to use and incorporate data into the decision making framework remains a challenging topic Ultimately the chapters in this book present new models and frameworks to help overcome this obstacle Optimization and Control for Systems in the Big Data Era Theory and Applications is divided into five parts Part I offers reviews on optimization and control theories and Part II examines the optimization and control applications Part III provides novel insights and new findings in the area of financial optimization analysis The chapters in Part IV deal with operations analysis covering flow shop operations and quick response systems The book concludes with final remarks and a look to the future of big data related optimization and control problems University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Authors & titles University of California (System). Institute of Library Research, University of California, Berkeley, 1972 The Genesis of General Relativity Jürgen Renn, 2007-06-17 The transition from classical to modern physics in the rst half of the twentieth c tury by quantum and relativity theories affected some of the most fundamental notions of physical thinking such as matter radiation space and time This tran tion thus represents a challenge for any attempt to understand the structures of a s entile revolution. The present four volume work aims at a comprehensive account of the way in which the work of Albert Einstein and his contemporaries changed our understanding of space time and gravitation The conceptual framework of classical nineteenth century physics had to be fundamentally restructured and reinterpreted in order to arrive at a theory of gravitation compatible with the new notions of space and time established in 1905 by Einstein's special theory of relativity Whereas the classical theory of gravitation postulated an instantaneous action at a distance Einstein's new relativistic kinematics rather suggested an analogy between the gravitational eld and the electromagnetic eld propagating with a nite speed It is therefore not surprising that Einstein was not alone in addressing the problem of formulating a theory of gravitation that complies with the kinematics of relativity

t ory The analysis of these alternative approaches as well as of earlier alternative approaches to gravitation within classical physics turns out to be crucial for identi ing the necessities and contingencies in the actual historical development 
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#### Table of Contents Mathematical Reformulation Of The Genera

- 1. Understanding the eBook Mathematical Reformulation Of The Genera
  - The Rise of Digital Reading Mathematical Reformulation Of The Genera
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematical Reformulation Of The Genera
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematical Reformulation Of The Genera
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematical Reformulation Of The Genera
  - Personalized Recommendations
  - Mathematical Reformulation Of The Genera User Reviews and Ratings
  - Mathematical Reformulation Of The Genera and Bestseller Lists

- 5. Accessing Mathematical Reformulation Of The Genera Free and Paid eBooks
  - Mathematical Reformulation Of The Genera Public Domain eBooks
  - Mathematical Reformulation Of The Genera eBook Subscription Services
  - Mathematical Reformulation Of The Genera Budget-Friendly Options
- 6. Navigating Mathematical Reformulation Of The Genera eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Mathematical Reformulation Of The Genera Compatibility with Devices
  - Mathematical Reformulation Of The Genera Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematical Reformulation Of The Genera
  - Highlighting and Note-Taking Mathematical Reformulation Of The Genera
  - Interactive Elements Mathematical Reformulation Of The Genera
- 8. Staying Engaged with Mathematical Reformulation Of The Genera
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematical Reformulation Of The Genera
- 9. Balancing eBooks and Physical Books Mathematical Reformulation Of The Genera
  - Benefits of a Digital Library
  - $\circ$  Creating a Diverse Reading Collection Mathematical Reformulation Of The Genera
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematical Reformulation Of The Genera
  - Setting Reading Goals Mathematical Reformulation Of The Genera
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Reformulation Of The Genera
  - Fact-Checking eBook Content of Mathematical Reformulation Of The Genera
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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