# CHAOS UNIVERSAL 62

MILOS MAREK, IGOR SCHREIBER

- BIBLIOGRAPHY ON CHAOS, 1991-08-22 THIS VOLUME IS A COLLECTION OF MORE THAN 7000 FULL TITLES OF BOOKS AND PAPERS RELATED TO CHAOTIC BEHAVIOUR IN NONLINEAR DYNAMICS. EMPHASIS HAS BEEN MADE ON RECENT PUBLICATIONS, BUT MANY PUBLICATIONS WHICH APPEARED BEFORE 1980 ARE ALSO INCLUDED. MANY TITLES HAVE BEEN CHECKED WITH THE AUTHORS. THE SCOPE OF THE BIBLIOGRAPHY IS NOT RESTRICTED TO PHYSICS AND MATHEMATICS OF CHAOS ONLY. APPLICATIONS OF CHAOTIC DYNAMICS TO OTHER BRANCHES OF NATURAL AND SOCIAL SCIENCES ARE ALSO CONSIDERED. WORKS RELATED TO CHAOTIC DYNAMICS, E.G., PAPERS ON TURBULENCE DYNAMICAL SYSTEMS THEORY AND FRACTAL GEOMETRY, ARE LISTED AT THE DISCRETION OF THE AUTHOR OR THE COMPILER. THIS BIBLIOGRAPHY IS EXPECTED TO BE AN IMPORTANT REFERENCE BOOK FOR LIBRARIES AND INDIVIDUAL RESEARCHERS.

  CONTENTS:BOOKS: 1980 AND BEFORE 1981-1990PAPERS READERSHIP: POSTGRADUATES IN CHAOS, PHYSICS, ENGINEERING, MATHEMATICS, SOCIAL SCIENCE AND LIFE SCIENCES. KEYWORDS:
- EHAOTIC CLIMATE DYNAMICS A. SELVAM, 2007-08 ATMOSPHERE IS A CHAOTIC SYSTEM. AS SUCH IT IS INHERENTLY UNPREDICTABLE. THE BOOK APPLIES CHAOS THEORY TO UNDERSTAND AND PREDICT CLIMATE SYSTEMS. AUTHOR PRESENTS A CELL DYNAMICAL SYSTEM MODEL FOR TURBULENT FLUID FLOWS. THE MODEL ENVISAGES THE IRREGULAR SPACE-TIME FLUCTUATIONS OF THE ATMOSPHERIC FLOW PATTERN GENERATED AS A CONSEQUENCE OF THE SUPERIMPOSITION OF A CONTINUUM OF EDDIES. THE NATURAL SPACE-TIME VARIABILITY IS QUANTIFIED IN TERMS OF THE UNIVERSAL INVERSE POWER-LAW FORM OF THE STATISTICAL NORMAL DISTRIBUTION. A RANGE OF POSSIBLE APPLICATIONS OF THE CELL DYNAMICAL SYSTEM MODEL FOR WEATHER AND CLIMATE SYSTEM IS DISCUSSED. THE BOOK PROVIDES A COMPREHENSIVE REFERENCE MATERIAL FOR SCIENTISTS AND ACADEMICIANS WORKING IN THE FIELD OF ATMOSPHERIC SCIENCES AND RELATED TOPICS.
- Elhaos in Chemistry and Biochemistry Richard J. Field, L Szl¢ Gyerry, 1993 True deterministic chaos is characterized by unpredictable, apparently random motion in a dynamical system completely described by a deterministic dynamic law, usually a nonlinear differential equation, with no stochastic component. The inability to predict future behavior of a chaotic system occurs because trajectories evolving from arbitrarily close initial conditions diverge. Chaos is universal as it may arise in any system governed by one of a class of quite common, suitable nonlinear dynamic laws. This book discusses both the experimental observation and theoretical interpretation of chaos in chemical and biochemical systems. Examples are drawn from the Belousov-Zhabotinsky reaction, surface reactions, electrochemical reactions, enzyme reactions, and periodically perturbed oscillating systems.
- DINIVERSAL (IN THE REALM OF THE SENSIBLE) DOROTHEA OLKOWSKI, 2007-03-02 THE UNIVERSAL (IN THE REALM OF THE SENSIBLE): BEYOND CONTINENTAL PHILOSOPHY PROPOSES A RADICAL, NEW PHILOSOPHICAL SYSTEM THAT MOVES FROM ONTOLOGY TO ETHICS. DOROTHEA OLKOWSKI DEVELOPS THE CONCEPT OF AN ONTOLOGICAL UNCONSCIOUS, A CONNECTION ARISING FROM OUR SENSIBLE RELATION TO THE WORLD THAT CONDITIONS ENCOUNTERS WITH THE ENVIRONMENT AND WITH OTHERS. THIS FUNDAMENTAL ONTOLOGY RETHINKS THE SPACE-TIME RELATIONS OPENED BY IRIGARAY'S NOTION OF THE 'INTERVAL,' BERGSON'S 'RECOLLECTION,' MERLEAU-PONTY'S IDEA OF THE 'FLESH' AND DELEUZE'S 'PLANE OF IMMANENCE'. WRITING IN AN ORIGINAL STYLE, INSPIRED BY LITERATURE AND THE ARTS, OLKOWSKI LOCATES A 'REALM OF THE SENSES', A FIELD OF VULNERABILITY, FELT AS PLEASURES AND PAINS. THIS PRESENTS AN AESTHETIC SENSE OF SOMETHING UNIVERSAL TO ALL HUMAN KIND, AS WELL AS TO THE ORGANIC AND INORGANIC WORLD. IN ADDITION TO THIS PROPOSAL FOR A WIDER ONTOLOGY, THE RELATION BETWEEN TRADITIONAL ONTOLOGIES AND POLITICS IS EXAMINED AS A MEANS OF OPENING POLITICS BEYOND A NO EXIT OR LIMIT CYCLE. INSTEAD A MULTIPLICITY OF SELF-ORGANIZED, EMERGENT PERSPECTIVES EMERGES, ELIMINATING THE NEED FOR THE CONNECTIONS, CONJUNCTIONS, AND DISJUNCTIONS OF THE KANTIAN PARADIGM AT WORK IN CONTEMPORARY CONTINENTAL PHILOSOPHY. THIS IS A TIMELY, CONTROVERSIAL AND IMPORTANT BOOK THAT WILL CONTRIBUTE ENORMOUSLY TO THE STUDY OF DELEUZE AND CONTINENTAL PHILOSOPHY.

   \*\*TABILITY AND CHAOS IN CELESTIAL MECHANICS\*\* ALESSANDRA CELLETTI, 2010-03-10 This OVERVIEW OF CLASSICAL CELESTIAL MECHANICS FOCUSES THE INTERPLAY WITH
- ETABILITY AND CHAOS IN CELESTIAL MECHANICS ALESSANDRA CELLETTI, 2010-03-10 THIS OVERVIEW OF CLASSICAL CELESTIAL MECHANICS FOCUSES THE INTERPLAY WITH DYNAMICAL SYSTEMS. PARADIGMATIC MODELS INTRODUCE KEY CONCEPTS ORDER, CHAOS, INVARIANT CURVES AND CANTORI FOLLOWED BY THE INVESTIGATION OF DYNAMICAL SYSTEMS WITH NUMERICAL METHODS.
- PHAOTIC BEHAVIOUR OF DETERMINISTIC DISSIPATIVE SYSTEMS MILOS MAREK, IGOR SCHREIBER, 1995-07-20 THIS GRADUATE TEXT SURVEYS BOTH THE THEORETICAL AND EXPERIMENTAL ASPECTS OF DETERMINISTIC CHAOTIC BEHAVIOUR.
- DECOMETRIC STRUCTURES OF PHASE SPACE IN MULTI-DIMENSIONAL CHAOS MIKITO TODA, TAMIKI KOMATSUZAKI, TETSURO KONISHI, R. STEPHEN BERRY, STUART A. RICE, 2005-01-03 THIS SERIES PROVIDES THE CHEMICAL PHYSICS FIELD WITH A FORUM FOR CRITICAL, AUTHORITATIVE EVALUATIONS OF ADVANCES IN EVERY AREA OF THE DISCIPLINE. VOLUME 130 IN THE SERIES CONTINUES TO REPORT RECENT ADVANCES WITH SIGNIFICANT, UP-TO-DATE CHAPTERS BY INTERNATIONALLY RECOGNIZED RESEARCHERS.
- Notion, But that nevertheless exhibit nonpredictable behavior. The detailed description of turbulent motions remains perhaps the outstanding unsolved problem of classical physics. In recent years, however, a new theory has been formulated that succeeds in making quantitative predictions describing certain transitions to turbulence. Its significance lies in its possible application to large classes (often very dissimilar) of nonlinear systems. Since the publication of Universality in Chaos

- IN 1984, PROGRESS HAS CONTINUED TO BE MADE IN OUR UNDERSTANDING OF NONLINEAR DYNAMICAL SYSTEMS AND CHAOS. THIS SECOND EDITION EXTENDS THE COLLECTION OF ARTICLES TO COVER RECENT DEVELOPMENTS IN THE FIELD, INCLUDING THE USE OF STATISTICAL MECHANICS TECHNIQUES IN THE STUDY OF STRANGE SETS ARISING IN DYNAMICS. IT CONCENTRATES ON THE UNIVERSAL ASPECTS OF CHAOTIC MOTIONS, THE QUALITATIVE AND QUANTITATIVE PREDICTIONS THAT APPLY TO LARGE CLASSES OF PHYSICAL SYSTEMS. MUCH LIKE THE PREVIOUS EDITION, THIS BOOK WILL BE AN INDISPENSABLE REFERENCE FOR RESEARCHERS AND GRADUATE STUDENTS INTERESTED IN CHAOTIC DYNAMICS IN THE PHYSICAL, BIOLOGICAL, AND MATHEMATICAL SCIENCES AS WELL AS ENGINEERING.
- AUBREY BALLARD, 2020-05-14 WHAT WAS IT LIKE TO BE A PART OF THE FIRST AMERICAN CHAOS? NOT JUST BE THERE, BUT EXECUTE IT. WHAT WAS IT LIKE TO BE A KRONIE? A LOYAL MEMBER OF THE UNIVERSAL DEFIANCE. WHAT WAS IT LIKE TO LIVE IN THE ASYLUM? UNDERGROUND AND HIDDEN FROM THE WORLD. WHAT WAS IT LIKE TO MAKE A DECISION THAT COULD CHANGE EVERYTHING? MEET MAXMAX WAS YOUR TYPICAL KRONIE A LOYAL MEMBER OF THE UNIVERSAL DEFIANCE WITH THE GOAL OF OVERTHROWING THE TYRANNICAL GOVERNMENT OF ONEGLOBAL. MAX, ALONG WITH HIS BEST FRIEND CHASE, HAD THE HONOR OF NOT ONLY GOING ON THE FIRST AMERICAN CHAOS BUT ALSO BEING A PART OF THE PRE-CHAOS TEAM: A SELECT GROUP OF KRONIES WHO WOULD INFILTRATE ALL-MARK AND CLEAR THE PATH FOR THE REST OF THE DEFIANCE. BUT WHEN A PERSONAL MISSION BECOMES MAX'S FOCUS, HARD DECISIONS MUST BE MADE. WITH MAX'S AND THE DEFIANCE'S FATE HANGING IN THE BALANCE, LOYALTIES ARE PUT TO THE ULTIMATE TEST.
- ETERMINISTIC CHAOS IN GENERAL RELATIVITY DAVID HOBILL, ADRIAN BURD, A.A. COLEY, 2013-06-29 Nonlinear dynamical systems play an important role in a number of disciplines. The physical, biological, economic and even sociological worlds are comprised of complex nonlinear systems that cannot be broken down into the behavior of their constituents and then reassembled to form the whole. The lack of a superposition principle in such systems has challenged researchers to use a variety of analytic and numerical methods in attempts to understand the interesting nonlinear interactions that occur in the World around us. General relativity is a nonlinear dynamical theory par excellence. Only recently has the nonlinear evolution of the gravitational field described by the theory been tackled through the use of methods used in other disciplines to study the importance of time dependent nonlinearities. The complexity of the equations of general relativity has been (and still remains) a major hurdle in the formulation of concrete mathematical concepts. In the past the imposition of a high degree of symmetry has allowed the construction of exact solutions to the Einstein equations. However, most of those solutions are nonphysical and of those that do have a physical significance, many are often highly idealized or time independent.
- PYE SMITH, 1840
- EMAOTIC DNA DYNAMICS AMUJURI MARY SELVAM, 2022-05-30 A GENERAL SYSTEMS THEORY MODEL PREDICTS QUASIPERIODIC PENROSE TILING PATTERN FOR THE NESTED COILED STRUCTURE OF THE DNA MOLECULE IN THE CHROMOSOME RESULTING IN MAXIMUM PACKING EFFICIENCY AND UNIFIED WHOLE FUZZY LOGIC NETWORK ARCHITECTURE WITH ORDERED TWO-WAY SIGNAL TRANSMISSION BETWEEN THE CODING AND NON-CODING (JUNK DNA) REGIONS. JUNK DNA ARE NOT REDUNDANT. MODIFICATION OF THE DNA BASE SEQUENCE STRUCTURE AT ANY LOCATION MAY HAVE SIGNIFICANT NOTICEABLE EFFECTS ON THE FUNCTION OF THE DNA MOLECULE AS A WHOLE. THIS BOOK HELPS US UNDERSTAND THE COOPERATIVE EXISTENCE OF INDIVIDUAL COMPONENTS FOR OPTIMUM PERFORMANCE OF THE SYSTEM.
- ESUS AND THE MISSIONAL MOVEMENT IN GALILEE SUN WOOK KIM, 2019-07-10 IN NEW TESTAMENT SCHOLARSHIP, THE STUDY OF SPACE HAS BEEN UNDERREPRESENTED IN COMPARISON WITH THE STUDY OF TIME. WHILE JESUS' LIFE AND MINISTRY HAVE BEEN INTENSIVELY EXPLORED IN TERMS OF ESCHATOLOGY—I.E., WITH TIME SIGNIFICANCE—SPACE HAS TENDED TO BE TREATED AS SIMPLY A GIVEN ROOM OR INACTIVE BACKDROP WHERE EVENTS TOOK PLACE. INTEREST IN THE SPACE WHERE JESUS MINISTERED HAS, HOWEVER, GRADUALLY INCREASED, AND SPACE HAS RECEIVED GREATER ATTENTION FROM SOCIOLOGICAL AND LITERARY PERSPECTIVES. IN PARTICULAR, SPATIAL INVESTIGATIONS INTO THE SOCIAL CIRCUMSTANCES OF GALILEE, THE PLACE OF ORIGIN OF JESUS' MISSIONAL MOVEMENT, HAVE BEGUN TO ATTRACT SERIOUS SCHOLARLY ATTENTION. THE IMPORTANT FUNCTIONS OF SPACE IN LITERATURE ARE ALSO BECOMING BETTER RECOGNIZED: SPATIAL SETTINGS SERVE NOT ONLY TO GENERATE ATMOSPHERE BUT ALSO TO DISCLOSE THE PURPOSES AND THEMES OF NARRATIVES. THIS BOOK EXPLORES JESUS' GALILEAN MINISTRY IN MARK 4:35—8:21 THROUGH THE USE OF SPATIAL ANALYSIS, DIVIDING SPACE INTO THREE CATEGORIES: SOCIAL, GEOGRAPHICAL, AND ALLUSIVE. THE STUDY OF EACH SPACE DISCOVERS SOCIAL, LITERARY, AND THEOLOGICAL IMPLICATIONS OF JESUS' MISSIONAL MOVEMENT IN GALILEE.
- ENSIDE PARADISE LOST DAVID QUINT, 2014-02-02 INSIDE PARADISE LOST OPENS UP NEW READINGS AND WAYS OF READING MILTON'S EPIC POEM BY MAPPING OUT THE INTRICACIES OF ITS NARRATIVE AND SYMBOLIC DESIGNS AND BY REVEALING AND EXPLORING THE DEEPLY ALLUSIVE TEXTURE OF ITS VERSE. DAVID QUINT'S COMPREHENSIVE STUDY DEMONSTRATES HOW SYSTEMATIC PATTERNS OF ALLUSION AND KEYWORDS GIVE STRUCTURE AND COHERENCE BOTH TO INDIVIDUAL BOOKS OF PARADISE LOST AND TO THE OVERARCHING RELATIONSHIP AMONG ITS BOOKS AND EPISODES. LOOKING AT POEMS WITHIN THE POEM, QUINT PROVIDES NEW INTERPRETATIONS AS HE TAKES READERS THROUGH THE MAJOR SUBJECTS OF PARADISE LOST—ITS RELATIONSHIP TO EPIC TRADITION AND THE BIBLE, ITS COSMOLOGY AND POLITICS, AND ITS DRAMAS OF HUMAN CHOICE. QUINT SHOWS HOW MILTON RADICALLY REVISES THE EPIC TRADITION AND THE GENESIS STORY ITSELF BY ARGUING THAT IT IS BETTER TO CREATE THAN DESTROY, BY TELLING THE READER TO MAKE LOVE, NOT WAR, AND BY APPEARING TO RATIFY ADAM'S

DECISION TO FALL AND DIE WITH HIS WIFE. THE MILTON OF THIS PARADISE LOST IS A CHRISTIAN HUMANIST WHO BELIEVES IN THE POWER AND FREEDOM OF HUMAN MORAL AGENCY. AS THIS INDISPENSABLE GUIDE AND REFERENCE TAKES US INSIDE THE POETRY OF MILTON'S MASTERPIECE, PARADISE LOST REVEALS ITSELF IN NEW FORMAL CONFIGURATIONS AND UNSUSPECTED LEVELS OF MEANING AND DESIGN.

- Nonlinear Dynamics of Chaotic and Stochastic Systems Vadim S. Anishchenko, Vladimir Astakhov, Alexander Neiman, Tatjana Vadivasova, Lutz Schimansky-Geier, 2007-07-20 We present an improved and enlarged version of our book Nonlinear namics of Chaotic and Stochastic Systems published by Springer in 2002. Basically, the new edition of the book corresponds to its ?rst version. While preparingthiseditionwemadesomeclari?cationsinseveralsectionsandalso corrected the misprints noticed in some formulas. Besides, three new sections have been added to Chapter 2. They are "Statistical Properties of Dynamical Chaos," "E?ects of Synchronization in Extended Self-Sustained Oscillatory Systems," and "Synchronization in Living Systems." The sections indicated re?ect the most interesting results obtained by the authors after publication of the ?rst edition. We hope that the new edition of the book will be of great interest for a widesectionofreaders who arealready specialists orthose who are beginning research in the ?elds of nonlinear oscillation and wave theory, dynamical chaos, synchronization, and stochastic process theory. Saratov, Berlin, and St. Louis V.S. Anishchenko November 2006 A.B. Neiman T.E. Vadiavasova V.V. Astakhov L. Schimansky-Geier Preface to the First Edition Thisbookisdevoted to the Classical background and to contemporary results on nonlinear dynamics of deterministic and stochastic systems. Considerable attentionisgiventothee?ectsofnoiseonvarious regimes of dynamic systems with noise-induced order. On the one hand, there exists a rich literature of excellent books on "Linear dynamics and chaos; on the other hand, there are many marvelous monographs and textbooks on the statistical physics of far-from-equilibrium and stochastic processes. Thisbookisanattemptic ordinate paperoachof nonlinear dynamics based on the deterministic evolution equations with the approach of statistical physics based on stochastic or kinetic equations. One of our main aims is to show the important role of noise in the organization
- ADVANCED TOPICS ON CELLULAR SELF-ORGANIZING NETS AND CHAOTIC NONLINEAR DYNAMICS TO MODEL AND CONTROL COMPLEX SYSTEMS,
- EMAOS IN ELECTRONICS M.A. VAN WYK, W.-H. STEEB, 2013-06-29 MANY DYNAMICAL SYSTEMS IN PHYSICS, CHEMISTRY AND BIOLOGY EXHIBIT COMPLEX BE HAVIOUR. THE APPARENTLY RANDOM MOTION OF A FLUID IS THE BEST KNOWN EXAMPLE. HOW EVER ALSO VIBRATING STRUCTURES, ELECTRONIC OSCILLATORS, MAGNETIC DEVICES, LASERS, CHEMICAL OSCILLATORS, AND POPULATION KINETICS CAN BEHAVE IN A COMPLICATED MANNER. ONE CAN FIND IRREGULAR OSCILLATIONS, WHICH IS NOW KNOWN AS CHAOTIC BEHAVIOUR. THE RESEARCH FIELD OF NONLINEAR DYNAMICAL SYSTEMS AND ESPECIALLY THE STUDY OF CHAOTIC SYSTEMS HAS BEEN HAILED AS ONE OF THE IMPORTANT BREAKTROUGHS IN SCIENCE THIS CENTURY. THE SIM PLEST REALIZATION OF A SYSTEM WITH CHAOTIC BEHAVIOUR IS AN ELECTRONIC OSCILLATOR. THE PURPOSE OF THIS BOOK IS TO PROVIDE A COMPREHENSIVE INTRODUCTION TO THE APPLICATION OF CHAOS THEORY TO ELECTRONIC SYSTEMS. THE BOOK PROVIDES BOTH THE THEORETICAL AND EXPERIMENTAL FOUNDATIONS OF THIS RESEARCH FIELD. EACH ELECTRONIC CIRCUIT IS DESCRIBED IN DETAIL TOGETHER WITH ITS MATHEMATICAL MODEL. CONTROLLING CHAOS OF ELECTRONIC OSCILLA TORS IS ALSO INCLUDED. END OF PROOFS AND EXAMPLES ARE INDICATED BY . INSIDE EXAMPLES THE END OF PROOFS ARE INDICATED WITH O. WE WISH TO EXPRESS OUR GRATITUDE TO CATHARINE THOMPSON FOR A CRITICAL READING OF THE MANUSCRIPT. ANY USEFUL SUGGESTIONS AND COMMENTS ARE WELCOME. EMAIL ADDRESS OF THE FIRST AUTHOR: MVANWYKATTSAMAIL. TRSA. AC. ZA EMAIL ADDRESS OF THE FIRST AUTHOR: WHSATRAU3. RAU. AC. ZA/STEEB/STEEB. HTML XI CHAPTER 1 INTRODUCTION 1.
- Plaos, Complexity, and Sociology Raymond A. Eve, Sara Horsfall, Mary E. Lee, 1997-06-12 Provides a collection of articles which examine the emerging myths and theories surrounding the study of chaos and complexity. Useful to sociologists and others interested in chaos and complexity theory, this title focuses on methodological matters, and also presents conceptual models and applications.
- PHE NONLINEAR WORKBOOK WILLI-HANS STEEB, 2008-06-17 THE STUDY OF NONLINEAR DYNAMICAL SYSTEMS HAS ADVANCED TREMENDOUSLY IN THE LAST 20 YEARS, MAKING A BIG IMPACT ON SCIENCE AND TECHNOLOGY. THIS BOOK PROVIDES ALL THE TECHNIQUES AND METHODS USED IN NONLINEAR DYNAMICS. THE CONCEPTS AND UNDERLYING MATHEMATICS ARE DISCUSSED IN DETAIL. THE NUMERICAL AND SYMBOLIC METHODS ARE IMPLEMENTED IN C++, SYMBOLICC++ AND JAVA. OBJECT-ORIENTED TECHNIQUES ARE ALSO APPLIED. THE BOOK CONTAINS MORE THAN 150 READY-TO-RUN PROGRAMS. THE TEXT HAS ALSO BEEN DESIGNED FOR A ONE-YEAR COURSE AT BOTH THE JUNIOR AND SENIOR LEVELS IN NONLINEAR DYNAMICS. THE TOPICS DISCUSSED IN THE BOOK ARE PART OF E-LEARNING AND DISTANCE LEARNING COURSES CONDUCTED BY THE INTERNATIONAL SCHOOL FOR SCIENTIFIC COMPUTING, UNIVERSITY OF JOHANNESBURG.

  BEFORE THE BIG BANG BRIAN CLEGG, 2009-08-04 ACCORDING TO A RECENT SURVEY, THE MOST POPULAR QUESTION ABOUT SCIENCE FROM THE GENERAL PUBLIC WAS: WHAT CAME BEFORE THE BIG BANG? WE ALL KNOW ON SOME LEVEL WHAT THE BIG BANG IS, BUT WE DON'T KNOW HOW IT BECAME THE ACCEPTED THEORY, OR HOW WE MIGHT KNOW WHAT CAME BEFORE. IN BEFORE THE BIG BANG, BRIAN CLEGG (THE CRITICALLY ACCLAIMED AUTHOR OF UPGRADE ME AND THE GOD EFFECT) EXPLORES THE HISTORY OF THIS REMARKABLE CONCEPT. FROM THE EARLIEST CREATION MYTHS, THROUGH HERSHEL'S REALIZATION THAT THE MILKY WAY WAS ONE OF MANY GALAXIES, TO ON-GOING DEBATES ABOUT BLACK HOLES, THIS IS AN INCREDIBLE

LOOK AT THE ORIGINS OF THE UNIVERSE AND THE MANY THEORIES THAT LED TO THE ACCEPTANCE OF THE BIG BANG. BUT IN CLASSIC SCIENTIST FASHION CLEGG CHALLENGES THE NOTION OF THE BIG BANG ITSELF, AND RAISES THE DEEP PHILOSOPHICAL QUESTION OF WHY WE MIGHT WANT TO RETHINK THE ORIGIN OF THE UNIVERSE. THIS IS POPULAR SCIENCE AT ITS BEST, EXPLORATORY, CONTROVERSIAL, AND UTTERLY ENGROSSING.

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