

# SUPERNOVA CHALLENGE OF THE UNIVERSE 11

S. Böhme, U. Esser, W. Fricke, U. Görtzel-Lingner, F. Henn, D. Krahn, H. Scholl, G. Zech

📖 **CHALLENGE OF THE UNIVERSE** J. ALLEN HYNEK,1962

📖 **THE MYSTERIOUS UNIVERSE** ELLEN JACKSON,2008 THE UNIVERSE IS RAPIDLY EXPANDING. OF THAT MUCH SCIENTISTS ARE CERTAIN. BUT HOW FAST? AND WITH WHAT IMPLICATIONS REGARDING THE FATE OF THE UNIVERSE? ELLEN JACKSON AND NIC BISHOP FOLLOW DR. ALEX FILLIPPENKO AND HIS HIGH-Z SUPERNOVA SEARCH TEAM TO MAUNA KEA VOLCANO IN HAWAII, WHERE THEY WILL STUDY SPACE PHENOMENA AND LOOK FOR SUPERNOVAE, DYING STARS THAT EXPLODE WITH THE POWER OF BILLIONS OF HYDROGEN BOMBS. DR. FILLIPPENKO LOOKS FOR BLACK HOLES--AREAS IN SPACE WITH SUCH A STRONG GRAVITATIONAL PULL THAT NO MATTER OR ENERGY CAN ESCAPE FROM THEM--WITH HIS ROBOTIC TELESCOPE. AND THEY STUDY THE EFFECTS OF DARK ENERGY, THE MYSTERIOUS FORCE THAT SCIENTISTS BELIEVE IS PUSHING THE UNIVERSE APART, CAUSING ITS CONSTANT AND ACCELERATING EXPANSION.

📖 **THE GOD PROBLEM** HOWARD BLOOM,2012-08-30 GOD’S WAR CRIMES, ARISTOTLE’S SNEAKY TRICKS, EINSTEIN’S PAJAMAS, INFORMATION THEORY’S BLIND SPOT, STEPHEN WOLFRAM’S NEW KIND OF SCIENCE, AND SIX MONKEYS AT SIX TYPEWRITERS GETTING IT WRONG. WHAT DO THESE HAVE TO DO WITH THE BIRTH OF A UNIVERSE AND WITH YOUR NEED FOR MEANING? EVERYTHING, AS YOU’RE ABOUT TO SEE. HOW DOES THE COSMOS DO SOMETHING IT HAS LONG BEEN THOUGHT ONLY GODS COULD ACHIEVE? HOW DOES AN INANIMATE UNIVERSE GENERATE STUNNING NEW FORMS AND UNBELIEVABLE NEW POWERS WITHOUT A CREATOR? HOW DOES THE COSMOS CREATE? THAT’S THE CENTRAL QUESTION OF THIS BOOK, WHICH FINDS CLUES IN STRANGE PLACES. WHY A DOES NOT EQUAL A. WHY ONE PLUS ONE DOES NOT EQUAL TWO. HOW THE GREEKS USED KICKBALLS TO REINVENT THE UNIVERSE. AND THE REASON THAT POLISH-BORN BENOÎT MANDELBROT—THE FATHER OF FRACTAL GEOMETRY—REBELLED AGAINST HIS UNCLE. YOU’LL TAKE A SCIENTIFIC EXPEDITION INTO THE SECRET HEART OF A COSMOS YOU’VE NEVER SEEN. NOT JUST ANY COSMOS. AN ELECTRIFYINGLY INVENTIVE COSMOS. AN OBSESSIVE-COMPULSIVE COSMOS. A DRIVEN, AMBITIOUS COSMOS. A COSMOS OF COLOSSAL SHOCKS. A COSMOS OF SCREAMING, STUNNING SURPRISE. A COSMOS THAT BREAKS FIVE OF SCIENCE’S MOST SACRED LAWS. YES, FIVE. AND YOU’LL BE REWARDED WITH AUTHOR HOWARD BLOOM’S PROVOCATIVE NEW THEORY OF THE BEGINNING, MIDDLE, AND END OF THE UNIVERSE—THE BLOOM TOROIDAL MODEL, ALSO KNOWN AS THE BIG BAGEL THEORY—WHICH EXPLAINS TWO OF THE BIGGEST MYSTERIES IN PHYSICS: DARK ENERGY AND WHY, IF ANTIMATTER AND MATTER ARE CREATED IN EQUAL AMOUNTS, THERE IS SO LITTLE ANTIMATTER IN THIS UNIVERSE. CALLED TRULY AWESOME BY NOBEL PRIZE-WINNER DUDLEY HERSCHBACH, THE GOD PROBLEM WILL PULL YOU IN WITH THE IRRESISTIBLE ATTRACTION OF A BLACK HOLE AND SPIT YOU OUT AGAIN ENLIGHTENED WITH THE FORCE OF A BIG BANG. BE PREPARED TO HAVE YOUR MIND BLOWN. FROM THE HARDCOVER EDITION.

📖 **WORLD IN PROCESS** JOHN A. JUNGERTMAN,2000-11-02 WORLD IN PROCESS PROVIDES NOT ONLY AN UP-TO-DATE DESCRIPTION OF THE IDEAS OF MODERN PHYSICS AND COSMOLOGY, BUT ALSO CONNECTS THOSE IDEAS TO PROCESS THOUGHT. TO MAKE THESE CONNECTIONS, A BRIEF INTRODUCTION TO PROCESS PHILOSOPHY IS PROVIDED SO THAT THE NEW PHYSICS AND PROCESS THOUGHT CAN BE INTEGRATED.

📖 **A COLLEGE COURSE ON RELATIVITY AND COSMOLOGY** TA-PEI CHENG,2015 THIS ADVANCED UNDERGRADUATE TEXT INTRODUCES EINSTEIN’S GENERAL THEORY OF RELATIVITY. THE TOPICS COVERED INCLUDE GEOMETRIC FORMULATION OF SPECIAL RELATIVITY, THE PRINCIPLE OF EQUIVALENCE, EINSTEIN’S FIELD EQUATION AND ITS SPHERICAL-SYMMETRIC SOLUTION, AS WELL AS COSMOLOGY. AN EMPHASIS IS PLACED ON PHYSICAL EXAMPLES AND SIMPLE APPLICATIONS WITHOUT THE FULL TENSOR APPARATUS. IT BEGINS BY EXAMINING THE PHYSICS OF THE EQUIVALENCE PRINCIPLE AND LOOKS AT HOW IT INSPIRED EINSTEIN’S IDEA OF CURVED SPACETIME AS THE GRAVITATIONAL FIELD. AT A MORE MATHEMATICALLY ACCESSIBLE LEVEL, IT PROVIDES A METRIC DESCRIPTION OF A WARPED SPACE, ALLOWING THE READER TO STUDY MANY INTERESTING PHENOMENA SUCH AS GRAVITATIONAL TIME DILATION, GPS OPERATION, LIGHT DEFLECTION, PRECESSION OF MERCURY’S PERIHELION, AND BLACK HOLES. NUMEROUS MODERN TOPICS IN COSMOLOGY ARE DISCUSSED FROM PRIMORDIAL INFLATION AND COSMIC MICROWAVE BACKGROUND TO THE DARK ENERGY THAT PROPELS AN ACCELERATING UNIVERSE. BUILDING ON CHENG’S PREVIOUS BOOK, ‘RELATIVITY, GRAVITATION AND COSMOLOGY: A BASIC INTRODUCTION’, THIS TEXT HAS BEEN TAILORED TO THE ADVANCED STUDENT. IT CONCENTRATES ON THE CORE ELEMENTS OF THE SUBJECT MAKING IT SUITABLE FOR A ONE-SEMESTER COURSE AT THE UNDERGRADUATE LEVEL. IT CAN ALSO SERVE AS AN ACCESSIBLE INTRODUCTION OF GENERAL RELATIVITY AND COSMOLOGY FOR THOSE READERS WHO WANT TO STUDY THE SUBJECT ON THEIR OWN. THE PROPER TENSOR FORMULATION OF EINSTEIN’S FIELD EQUATION IS PRESENTED IN AN APPENDIX CHAPTER FOR THOSE WISHING TO GLIMPSE FURTHER AT THE MATHEMATICAL DETAILS. TO REQUEST A COPY OF THE SOLUTIONS MANUAL, VISIT [HTTP://GLOBAL.OUP.COM/UK/ACADEMIC/PHYSICS/ADMIN/SOLUTIONS](http://global.oup.com/uk/academic/physics/admin/solutions).

📖 **STRING THEORY AND COSMOLOGY** U DANIELSSON,A GOOBAR,B NILSSON,2005-08-02 THE NOBEL SYMPOSIUM IN 2003 ON STRING THEORY AND COSMOLOGY WAS A GATHERING OF MANY OF THE MOST ACTIVE AND DISTINGUISHED SCIENTISTS IN THE WORLD, INCLUDING STEPHEN HAWKING, 2004 NOBEL PRIZE WINNER DAVID GROSS, AND ANDREI LINDE. THE EXPERTS, COMPRISING BOTH THEORETICIANS AND EXPERIMENTALISTS, WERE GIVEN THE OPPORTUNITY TO DISCUSS THE PRESENT STATUS OF THEIR RESPECTIVE SUBJECTS. THROUGHOUT THE SYMPOSIUM, SPECIAL ATTENTION WAS GIVEN TO THE CONNECTIONS BETWEEN THE FIELDS: THE QUESTIONS POSED RANGED FROM ”CAN COSMOLOGY BE USED TO TEST STRING THEORY?” TO ”CAN STRING THEORY ANSWER DEEP QUESTIONS ABOUT COSMOLOGY?” THE SYMPOSIUM MARKED A NEW ERA IN THE UNDERSTANDING OF THE SCIENCE OF THE VERY SMALL AND THE VERY LARGE. THIS BOOK IS A UNIQUE DOCUMENT THAT REFLECTS UPON THE STATE OF FUNDAMENTAL PHYSICS AT A HISTORICALLY IMPORTANT MOMENT IN TIME. CONTENTS: SUPERNOVAE AND DARK ENERGY (J L TONRY)STUDYING DARK ENERGY WITH SUPERNOVAE: NOW, SOON, AND THE NOT-TOO-DISTANT FUTURE (S PERLMUTTER)WHAT HAVE WE LEARNED FROM COSMIC MICROWAVE BACKGROUND FLUCTUATIONS? (D N SPERGEL)QUINTESSENTIAL IDEAS (P J STEINHARDT)PROSPECTS OF INFLATION (A LINDE)A NON SINGULAR UNIVERSE (S HAWKING)UNCONVENTIONAL SCENARIOS AND PERTURBATIONS THEREIN (G VENEZIANO)HOLOGRAPHIC COSMOLOGY 3.0 (T BANKS & W FISCHLER)BOUNCING UNIVERSES IN STRING THEORY? (J POLCHINSKI)REMARKS ON TACHYON DRIVEN COSMOLOGY (A SEN)BEYOND INFLATION: A CYCLIC UNIVERSE SCENARIO (N TUROK & P J STEINHARDT)CREATING NAKED SINGULARITIES AND NEGATIVE ENERGY (G T HOROWITZ)FILTERING GRAVITY: MODIFICATION AT LARGE DISTANCES? (G DVALI)COSMOLOGICAL SINGULARITIES IN STRING THEORY (D KUTASOV)WHERE DO WE STAND IN FUNDAMENTAL (STRING) THEORY (D J GROSS) READERSHIP: SCIENTISTS IN THE FIELDS OF PARTICLE PHYSICS, STRING THEORY, COSMOLOGY AND ASTRONOMY. KEYWORDS:STRING THEORY;COSMOLOGY;INFLATION;DARK MATTER;DARK ENERGY;BIG BANGKEY FEATURES:A UNIQUE SYNTHESIS OF THE WAY COSMOLOGISTS AND STRING THEORISTS VIEW THE ORIGINS OF OUR UNIVERSEA HISTORICAL DOCUMENT REPRESENTING A DECISIVE MOMENT IN THE HISTORY OF COSMOLOGYINCLUDES CONTRIBUTIONS FROM MANY OF THE MOST PROMINENT ASTRONOMERS AND PHYSICISTS IN THE WORLD

📖 **LITERATURE 1974, PART 1** S. BÛHME,U. ESSER,W. FRICKE,U. GÛNTZEL-LINGNER,F. HENN,D. KRAHN,H. SCHOLL,G. ZECH,2013-03-14 ASTRONOMY AND ASTROPHYSICS ABSTRACTS, WHICH HAS APPEARED IN SEMI-ANNUAL VOLUMES SINCE 1969, IS DEVOTED TO THE RECORDING, SUMMARIZING AND INDEXING OF ASTRONOMICAL PUBLICATIONS THROUGHOUT THE WORLD. IT IS PREPARED UNDER THE AUSPICES OF THE INTERNATIONAL ASTRONOMICAL UNION (ACCORDING TO A RESOLUTION ADOPTED AT THE 14TH GENERAL ASSEMBLY IN 1970). ASTRONOMY AND ASTROPHYSICS ABSTRACTS AIMS TO PRESENT A COMPREHENSIVE DOCUMENTATION OF LITERATURE IN ALL FIELDS OF ASTRONOMY AND ASTROPHYSICS. EVERY EFFORT WILL BE MADE TO ENSURE THAT THE AVERAGE TIME INTERVAL BETWEEN THE DATE OF RECEIPT OF THE ORIGINAL LITERATURE AND PUBLICATION OF THE ABSTRACTS WILL NOT EXCEED EIGHT MONTHS. THIS TIME INTERVAL IS NEAR TO THAT ACHIEVED BY MONTHLY ABSTRACTING JOURNALS, COMPARED TO WHICH OUR SYSTEM OF ACCUMULATING ABSTRACTS FOR ABOUT SIX MONTHS OFFERS THE ADVANTAGE OF GREATER CONVENIENCE FOR THE USER. VOLUME II CONTAINS LITERATURE PUBLISHED IN 1974 AND RECEIVED BEFORE AUGUST 15, 1974; SOME OLDER LITERATURE WHICH WAS RECEIVED LATE AND WHICH IS NOT RECORDED IN EARLIER VOLUMES IS ALSO INCLUDED. BEGINNING WITH THIS VOLUME SOME MINOR CHANGES OF OUR CLASSIFICATION SCHEME HAVE BEEN MADE. WE ACKNOWLEDGE WITH THANKS CONTRIBUTIONS TO THIS VOLUME BY DR. J. BOUSKA, WHO SURVEYED JOURNALS AND PUBLICATIONS IN THE CZECH LANGUAGE AND SUPPLIED US WITH ABSTRACTS IN ENGLISH, AND BY THE COMMON WEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION (C.S.I.R.O.), SYDNEY, FOR PROVIDING TITLES AND ABSTRACTS OF PAPERS ON RADIO ASTRONOMY.

📖 **HIGH ENERGY PHYSICS 99 PROCEEDINGS OF THE INTERNATIONAL EUROPHYSICS CONFERENCE ON HIGH ENERGY PHYSICS, TAMPERE, FINLAND, 15-21 JULY 1999** K HUITU,H KURKI-SUONIO,J MAALAMPI,2000-01-01 HIGH ENERGY PHYSICS 99 CONTAINS THE 18 INVITED PLENARY PRESENTATIONS AND 250 CONTRIBUTIONS TO PARALLEL SESSIONS PRESENTED AT THE INTERNATIONAL EUROPHYSICS CONFERENCE ON HIGH ENERGY PHYSICS. THE BOOK PROVIDES A COMPREHENSIVE SURVEY OF THE LATEST DEVELOPMENTS IN HIGH ENERGY PHYSICS. TOPICS DISCUSSED INCLUDE HARD HIGH ENERGY, STRUCTURE FUNCTIONS, SOFT INTERACTIONS, HEAVY FLAVOR, THE STANDARD MODEL, HADRON SPECTROSCOPY, NEUTRINO MASSES, PARTICLE ASTROPHYSICS, FIELD THEORY, AND DETECTOR DEVELOPMENT.

📖 **THE ASTRONOMY REVOLUTION** DONALD G. YORK,OWEN GINGERICH,SHUANG-NAN ZHANG,2016-04-19 SOME 400 YEARS AFTER THE FIRST KNOWN PATENT APPLICATION FOR A TELESCOPE BY HANS LIPPERHEY, THE ASTRONOMY REVOLUTION: 400 YEARS OF EXPLORING THE COSMOS SURVEYS THE EFFECTS OF THIS INSTRUMENT AND EXPLORES THE QUESTIONS THAT HAVE ARISEN OUT OF SCIENTIFIC RESEARCH IN ASTRONOMY AND COSMOLOGY. INSPIRED BY THE INTERNATIONAL NEW VISION 400 CONFERENCE HELD

📖 **THE PHILOSOPHY OF COSMOLOGY** KHALIL CHAMCHAM,JOSEPH SILK,JOHN D. BARROW,SIMON SAUNDERS,2017-04-13 THIS BOOK ADDRESSES FOUNDATIONAL QUESTIONS RAISED BY OBSERVATIONAL AND THEORETICAL PROGRESS IN MODERN COSMOLOGY. AS THE FOUNDATIONAL VOLUME OF AN EMERGING ACADEMIC DISCIPLINE, EXPERTS FROM RELEVANT FIELDS LAY OUT THE FUNDAMENTAL PROBLEMS OF CONTEMPORARY COSMOLOGY AND EXPLORE THE ROUTES TOWARD FINDING POSSIBLE SOLUTIONS, FOR A BROAD ACADEMIC AUDIENCE.

📖 **BELL’S THEOREM, QUANTUM THEORY AND CONCEPTIONS OF THE UNIVERSE** MENAS KAFATOS,2013-03-09 BELL’S THEOREM AND ITS ASSOCIATED IMPLICATIONS FOR THE NATURE OF THE PHYSICAL WORLD REMAIN TOPICS OF GREAT INTEREST. FOR THIS REASON MANY MEETINGS HAVE BEEN RECENTLY HELD ON THE INTERPRETATION OF QUANTUM THEORY AND THE IMPLICATIONS OF BELL’S THEOREM. GENERALLY THESE MEETINGS HAVE BEEN HELD PRIMARILY FOR QUANTUM PHYSICISTS AND PHILOSOPHERS OF SCIENCE WHO HAVE BEEN OR ARE ACTIVELY WORKING ON THE TOPIC. NEVERTHELESS, OTHER PHILOSOPHERS OF SCIENCE, MATHEMATICIANS, ENGINEERS AS WELL AS MEMBERS OF THE GENERAL PUBLIC HAVE INCREASINGLY TAKEN INTEREST IN BELL’S THEOREM AND ITS IMPLICATIONS. THE FALL WORKSHOP HELD AT GEORGE MASON UNIVERSITY ON OCTOBER 21 AND 22, 1988 AND TITLED BELL’S THEOREM, QUANTUM THEORY AND CONCEPTIONS OF THE UNIVERSE WAS OF A MORE GENERAL SCOPE. NOT ONLY IT ATTRACTED EXPERTS IN THE FIELD, IT ALSO COVERED OTHER TOPICS SUCH AS THE IMPLICATIONS OF QUANTUM NON-LOCALITY FOR THE NATURE OF CONSCIOUSNESS, COSMOLOGY, THE ANTHROPIC PRINCIPLE, ETC. TOPICS USUALLY NOT COVERED IN PREVIOUS MEETINGS OF THIS KIND. THE MEETING WAS ATTENDED BY MORE THAN ONE HUNDRED TEN SPECIALISTS AND OTHER INTERESTED PEOPLE FROM ALL OVER THE WORLD. THE PURPOSE OF THE MEETING WAS NOT TO PROVIDE A DEFINITIVE ANSWER TO THE GENERAL QUESTIONS RAISED BY BELL’S THEOREM. IT IS LIKELY THAT THE DEBATE WILL GO ON FOR QUITE A LONG TIME. RATHER, IT WAS MEANT TO CONTRIBUTE TO THE IMPORTANT DIALOGUE BETWEEN DIFFERENT DISCIPLINES.

📖 **STAR NOISE: DISCOVERING THE RADIO UNIVERSE** KENNETH I. KELLERMANN,ELLEN N. BOUTON,2023-04-30 UNTIL KARL JANSKY’S 1933 DISCOVERY OF RADIO NOISE FROM THE MILKY WAY, ASTRONOMY WAS LIMITED TO OBSERVATION BY VISIBLE LIGHT. RADIO ASTRONOMY OPENED A NEW WINDOW ON THE UNIVERSE, LEADING TO THE DISCOVERY OF QUASARS, PULSARS, THE COSMIC MICROWAVE BACKGROUND, ELECTRICAL STORMS ON JUPITER, THE FIRST EXTRASOLAR PLANETS, AND MANY OTHER UNEXPECTED AND UNANTICIPATED PHENOMENA. THEORY GENERALLY PLAYED LITTLE OR NO ROLE – OR EVEN POINTED IN THE WRONG DIRECTION. SOME DISCOVERIES CAME AS A RESULT OF MILITARY OR INDUSTRIAL ACTIVITIES, SOME FROM ACADEMIC RESEARCH INTENDED FOR OTHER PURPOSES, SOME FROM SIMPLY LOOKING WITH A NEW TECHNIQUE. OFTEN IT WAS THE RIGHT PERSON, IN THE RIGHT PLACE, AT THE RIGHT TIME, DOING THE RIGHT THING – OR SOMETIMES THE WRONG THING. STAR NOISE TELLS THE STORY OF THESE DISCOVERIES, THE MEN AND WOMEN WHO MADE THEM, THE CIRCUMSTANCES WHICH

ENABLED THEM, AND THE SURPRISING WAYS IN WHICH REAL-LIFE SCIENTIFIC RESEARCH WORKS.

📖 **COSMOLOGY** DANIEL BAUMANN,2022-05-31 THE AUTHOR – A LEADING THEORETICAL COSMOLOGIST – EXPANDS ON HIS WIDELY ACCLAIMED LECTURE NOTES IN THIS SELF-CONTAINED TEXTBOOK, SUITABLE FOR THE ADVANCED UNDERGRADUATE OR STARTING GRADUATE LEVEL. PRESENTING THE KEY THEORETICAL FOUNDATIONS OF COSMOLOGY AND DESCRIBING THE OBSERVATIONS THAT HAVE TURNED THE SUBJECT INTO A PRECISION SCIENCE, THE AUTHOR KEEPS THE STUDENT IN MIND ON EVERY PAGE BY EXPLAINING CONCEPTS STEP-BY-STEP, IN AN APPROACHABLE MANNER. AFTER DESCRIBING THE DYNAMICS OF THE HOMOGENEOUS UNIVERSE, THE BOOK TRACES THE EVOLUTION OF SMALL DENSITY FLUCTUATIONS, WHICH WERE CREATED QUANTUM-MECHANICALLY DURING INFLATION AND ARE TODAY OBSERVED IN THE COSMIC MICROWAVE BACKGROUND AND THE LARGE-SCALE STRUCTURE OF THE UNIVERSE. THE BOOK IS IDEALLY SUITED AS A COURSE COMPANION OR FOR SELF-STUDY. WITH ALL NECESSARY BACKGROUND MATERIAL COVERED, STUDENTS HAVE EVERYTHING THEY NEED TO ESTABLISH AN UNRIVALLED UNDERSTANDING OF THE SUBJECT. COMPLETE WITH MANY WORKED EXAMPLES, FIGURES, AND HOMEWORK PROBLEMS, THIS TEXTBOOK IS A DEFINITIVE RESOURCE FOR ADVANCED STUDENTS IN PHYSICS, ASTRONOMY AND APPLIED MATHEMATICS.

📖 **CURRENT ASPECTS OF NEUTRINO PHYSICS** DAVID O. CALDWELL,2013-11-11 THIS BOOK, WRITTEN BY LEADING EXPERTS OF THE FIELD, GIVES AN EXCELLENT UP-TO-DATE OVERVIEW OF MODERN NEUTRINO PHYSICS AND IS USEFUL FOR SCIENTISTS AND GRADUATE STUDENTS ALIKE. THE BOOK STARTS WITH A HISTORY OF NEUTRINOS AND THEN DEVELOPS FROM THE FUNDAMENTALS TO THE DIRECT DETERMINATION OF MASSES AND LIFETIMES. THE ROLE OF NEUTRINOS IN FUNDAMENTAL ASTROPHYSICAL PROBLEMS IS DISCUSSED IN DETAIL.

📖 **DATA-INTENSIVE SCIENCE** TERENCE CRITCHLOW,KERSTIN KLEESE VAN DAM,2016-04-19 DATA-INTENSIVE SCIENCE HAS THE POTENTIAL TO TRANSFORM SCIENTIFIC RESEARCH AND QUICKLY TRANSLATE SCIENTIFIC PROGRESS INTO COMPLETE SOLUTIONS, POLICIES, AND ECONOMIC SUCCESS. BUT THIS COLLABORATIVE SCIENCE IS STILL LACKING THE EFFECTIVE ACCESS AND EXCHANGE OF KNOWLEDGE AMONG SCIENTISTS, RESEARCHERS, AND POLICY MAKERS ACROSS A RANGE OF DISCIPLINES. BRINGING TOGETHER LEADERS FROM MULTIPLE SCIENTIFIC DISCIPLINES, DATA-INTENSIVE SCIENCE SHOWS HOW A COMPREHENSIVE INTEGRATION OF VARIOUS TECHNIQUES AND TECHNOLOGICAL ADVANCES CAN EFFECTIVELY HARNESS THE VAST AMOUNT OF DATA BEING GENERATED AND SIGNIFICANTLY ACCELERATE SCIENTIFIC PROGRESS TO ADDRESS SOME OF THE WORLD’S MOST CHALLENGING PROBLEMS. IN THE BOOK, A DIVERSE CROSS-SECTION OF APPLICATION, COMPUTER, AND DATA SCIENTISTS EXPLORES THE IMPACT OF DATA-INTENSIVE SCIENCE ON CURRENT RESEARCH AND DESCRIBES EMERGING TECHNOLOGIES THAT WILL ENABLE FUTURE SCIENTIFIC BREAKTHROUGHS. THE BOOK IDENTIFIES BEST PRACTICES USED TO TACKLE CHALLENGES FACING DATA-INTENSIVE SCIENCE AS WELL AS GAPS IN THESE APPROACHES. IT ALSO FOCUSES ON THE INTEGRATION OF DATA-INTENSIVE SCIENCE INTO STANDARD RESEARCH PRACTICE, EXPLAINING HOW COMPONENTS IN THE DATA-INTENSIVE SCIENCE ENVIRONMENT NEED TO WORK TOGETHER TO PROVIDE THE NECESSARY INFRASTRUCTURE FOR COMMUNITY-SCALE SCIENTIFIC COLLABORATIONS. ORGANIZING THE MATERIAL BASED ON A HIGH-LEVEL, DATA-INTENSIVE SCIENCE WORKFLOW, THIS BOOK PROVIDES AN UNDERSTANDING OF THE SCIENTIFIC PROBLEMS THAT WOULD BENEFIT FROM COLLABORATIVE RESEARCH, THE CURRENT CAPABILITIES OF DATA-INTENSIVE SCIENCE, AND THE SOLUTIONS TO ENABLE THE NEXT ROUND OF SCIENTIFIC ADVANCEMENTS.

📖 **EXTREME EXPLOSIONS** DAVID S. STEVENSON,2013-09-05 WHAT HAPPENS AT THE END OF THE LIFE OF MASSIVE STARS? AT ONE TIME WE THOUGHT ALL THESE STARS FOLLOWED SIMILAR EVOLUTIONARY PATHS. HOWEVER, NEW DISCOVERIES HAVE SHOWN THAT THINGS ARE NOT QUITE THAT SIMPLE. THIS BOOK FOCUSES ON THE EXTREME –THE MOST INTENSE, BRILLIANT AND PECULIAR– OF ASTRONOMICAL EXPLOSIONS. IT FEATURES HIGHLY SIGNIFICANT OBSERVATIONAL FINDS THAT PUSH THE FRONTIERS OF ASTRONOMY AND ASTROPHYSICS, PARTICULARLY AS BEFORE THESE OBJECTS WERE ONLY PREDICTED IN THEORY. THIS BOOK IS FOR THOSE WHO WANT THE LATEST INFORMATION AND IDEAS ABOUT THE MOST DRAMATIC AND UNUSUAL EXPLOSIONS DETECTED BY CURRENT SUPERNOVA SEARCHES. IT EXAMINES AND EXPLAINS CATAclySMIC AND UNUSUAL EVENTS IN STELLAR ASTROPHYSICS AND PRESENTS THEM IN A NON-MATHEMATICAL BUT HIGHLY DETAILED WAY THAT NON-PROFESSIONALS CAN UNDERSTAND AND ENJOY.

📖 **DARK SIDE OF THE UNIVERSE** IAIN NICOLSON,2007-03-20 ONCE WE THOUGHT THE UNIVERSE WAS FILLED WITH SHINING STARS, DUST, PLANETS, AND GALAXIES. WE NOW KNOW THAT MORE THAN 98 PERCENT OF ALL MATTER IN THE UNIVERSE IS DARK. IT EMITS ABSOLUTELY NOTHING YET BENDS SPACE AND TIME; KEEPS STARS SPEEDING AROUND GALAXIES; AND DETERMINES THE FATE OF THE UNIVERSE. BUT DARK MATTER IS ONLY PART OF THE STORY. SCIENTISTS HAVE RECENTLY DISCOVERED THAT THE EXPANSION OF THE UNIVERSE IS SPEEDING UP, DRIVEN BY A MYSTERIOUS COMMODITY CALLED DARK ENERGY. DEPENDING ON WHAT DARK MATTER AND ENERGY HAPPEN TO BE, OUR SEEMINGLY QUIET UNIVERSE COULD END ITS DAYS IN A BIG RIP, TEARING ITSELF APART, OR A BIG CRUNCH, COLLAPSING DOWN TO A UNIVERSE THE SIZE OF NOTHING, READY TO BE REINCARNATED IN A BIG BANG ONCE AGAIN. FOR THE GENERAL READER AND ARMCHAIR ASTRONOMER ALIKE, IAIN NICOLSON’S FASCINATING ACCOUNT SHOWS HOW OUR IDEAS ABOUT THE NATURE AND THE CONTENT OF THE UNIVERSE HAVE DEVELOPED. HE HIGHLIGHTS KEY DISCOVERIES, EXPLAINS UNDERLYING CONCEPTS, AND EXAMINES CURRENT THINKING ON DARK MATTER AND DARK ENERGY. HE DESCRIBES TECHNIQUES THAT ASTRONOMERS USE TO EXPLORE THE REMOTE RECESSES OF THE COSMOS IN THEIR QUEST TO UNDERSTAND ITS COMPOSITION, EVOLUTION, AND ULTIMATE FATE.

📖 **STATISTICAL CHALLENGES IN MODERN ASTRONOMY V** ERIC D. FEIGELSON,JOGESH BABU,2012-08-15 THIS VOLUME CONTAINS A SELECTION OF CHAPTERS BASED ON PAPERS TO BE PRESENTED AT THE FIFTH STATISTICAL CHALLENGES IN MODERN ASTRONOMY SYMPOSIUM. THE SYMPOSIUM WILL BE HELD JUNE 13-15TH AT PENN STATE UNIVERSITY. MODERN ASTRONOMICAL RESEARCH FACES A VAST RANGE OF STATISTICAL ISSUES WHICH HAVE SPAWNED A REVIVAL IN METHODOLOGICAL ACTIVITY AMONG ASTRONOMERS. THE STATISTICAL CHALLENGES IN MODERN ASTRONOMY V CONFERENCE WILL BRING ASTRONOMERS AND STATISTICIANS TOGETHER TO DISCUSS METHODOLOGICAL ISSUES OF COMMON INTEREST. TIME SERIES ANALYSIS, IMAGE ANALYSIS, BAYESIAN METHODS, POISSON PROCESSES, NONLINEAR REGRESSION, MAXIMUM LIKELIHOOD, MULTIVARIATE CLASSIFICATION, AND WAVELET AND MULTISCALE ANALYSES ARE ALL IMPORTANT THEMES TO BE COVERED IN DETAIL. MANY PROBLEMS WILL BE INTRODUCED AT THE CONFERENCE IN THE CONTEXT OF LARGE-SCALE ASTRONOMICAL PROJECTS INCLUDING LIGO, AXAF, XTE, HIPPARCOS, AND DIGITIZED SKY SURVEYS.

📖 **PROGRESS IN PHYSICS, VOL. 4/2013** DMITRI RABOUNSKI ,FLORENTIN SMARANDACHE, LARISSA BORISSOVA, THE JOURNAL ON ADVANCED STUDIES IN THEORETICAL AND EXPERIMENTAL PHYSICS, INCLUDING RELATED THEMES FROM MATHEMATICS

📖 **SUPERNOVA ERA** CIXIN LIU,2019-10-22 FROM SCIENCE FICTION LEGEND CIXIN LIU, THE NEW YORK TIMES BESTSELLING AND AWARD-WINNING AUTHOR OF THE THREE-BODY PROBLEM, COMES A VISION OF THE FUTURE THAT READS LIKE LORD OF THE FLIES ON A GLOBAL SCALE IN SUPERNOVA ERA. IN THOSE DAYS, EARTH WAS A PLANET IN SPACE. IN THOSE DAYS, BEIJING WAS A CITY ON EARTH. ON THIS NIGHT, HISTORY AS KNOWN TO HUMANITY CAME TO AN END. EIGHT LIGHT YEARS AWAY, A STAR HAS DIED, CREATING A SUPERNOVA EVENT THAT SHOWERS EARTH IN DEADLY LEVELS OF RADIATION. WITHIN A YEAR, EVERYONE OVER THE AGE OF THIRTEEN WILL DIE. AND SO THE COUNTDOWN BEGINS. PARENTS APPRENTICE THEIR CHILDREN AND TRY TO PASS ON THE KNOWLEDGE NEEDED TO KEEP THE WORLD RUNNING. BUT WHEN THE WORLD IS THEIRS, THE LAST GENERATION MAY NOT WANT TO CONTINUE THE LEGACY LEFT TO THEM. AND IN SHAPING THE FUTURE HOWEVER THEY WANT, WILL THE CHILDREN USHER IN AN ERA OF BRIGHT BEGINNINGS OR FINAL MISTAKES? THIS AUDACIOUS AND ULTIMATELY OPTIMISTIC EARLY WORK WILL GIVE LIU’S ENGLISH-READING FANS A GLIMPSE AT HIS EVOLUTION AS A WRITER AND GIVE ANY SPECULATIVE FICTION READER FOOD FOR DEEP THOUGHT. -- SHELF AWARENESS AT THE PUBLISHER’S REQUEST, THIS TITLE IS BEING SOLD WITHOUT DIGITAL RIGHTS MANAGEMENT SOFTWARE (DRM) APPLIED.

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