

Jayant Narlikar

RIGHT HERE, WE HAVE COUNTLESS EBOOK **JAYANT NARLIKAR** AND COLLECTIONS TO CHECK OUT. WE ADDITIONALLY ALLOW VARIANT TYPES AND WITH TYPE OF THE BOOKS TO BROWSE. THE USUAL BOOK, FICTION, HISTORY, NOVEL, SCIENTIFIC RESEARCH, AS COMPETENTLY AS VARIOUS SUPPLEMENTARY SORTS OF BOOKS ARE READILY COMPREHENSIBLE HERE.

AS THIS JAYANT NARLIKAR, IT ENDS STIRRING LIVING THING ONE OF THE FAVORED EBOOK JAYANT NARLIKAR COLLECTIONS THAT WE HAVE. THIS IS WHY YOU REMAIN IN THE BEST WEBSITE TO LOOK THE AMAZING EBOOK TO HAVE.

THE PHYSICS-ASTRONOMY FRONTIER FRED HOYLE 1980

NEW SCIENTIST 1982-10-14 NEW SCIENTIST MAGAZINE WAS LAUNCHED IN 1956 "FOR ALL THOSE MEN AND WOMEN WHO ARE INTERESTED IN SCIENTIFIC DISCOVERY, AND IN ITS INDUSTRIAL, COMMERCIAL AND SOCIAL CONSEQUENCES". THE BRAND'S MISSION IS NO DIFFERENT TODAY - FOR ITS CONSUMERS, NEW SCIENTIST REPORTS, EXPLORES AND INTERPRETS THE RESULTS OF HUMAN ENDEAVOUR SET IN THE CONTEXT OF SOCIETY AND CULTURE.

ELEMENTS OF COSMOLOGY JAYANT V. NARLIKAR 1996 THIS BOOK IS BASED ON LECTURES GIVEN BY THE AUTHOR AT A NUMBER OF UNIVERSITY WITH THE AIM OF INTRODUCING COSMOLOGY TO STUDENTS AND TEACHERS AT THE GRADUATE LEVEL. HERE, COSMOLOGY IS EXPLAINED WITHIN THE FRAMEWORK OF NEWTONIAN GRAVITY AND MECHANICS THEREBY MAKING IT READILY UNDERSTOOD TO STUDENTS OF PHYSICS AND MATHEMATICS AT THE UNDERGRADUATE LEVEL.

SEVEN WONDERS OF THE COSMOS JAYANT VISHNU NARLIKAR 1999-04-15 THIS BOOK CONVEYS THE THRILL OF OBSERVING STRANGE AND SURPRISING FEATURES OF THE UNIVERSE AND THE SATISFACTION GAINED BY UNDERSTANDING THEM THROUGH MODERN SCIENCE. USING SIMPLE ANALOGIES AND A WEALTH OF ILLUSTRATIONS, PROFESSOR NARLIKAR SKILFULLY STEERS US THROUGH A COSMIC JOURNEY OF DISCOVERY, STARTING FROM THE EARTH AND SOLAR SYSTEM AND STEPPING OUT TO THE FARTHEST REACHES OF THE UNIVERSE. EACH OF THE SEVEN WONDERS REPRESENTS A RANGE OF MYSTERIOUS PHENOMENA OR A CLASS OF SPECTACULAR EVENTS OR REMARKABLE COSMIC OBJECTS THAT HAVE CHALLENGED HUMAN CURIOSITY AND OFTEN DEFIED EXPLANATION.

ISLAMIC FINANCIAL MANAGEMENT DR. JAQIR IQBAL 2009-10-01 THE ENCYCLOPAEDIC DICTIONARY OF MARATHI LITERATURE HAS BEEN DEVELOPED WITH A SPECIFIC PLANNING TO INCLUDE NOT ONLY MEN OF LETTERS BUT ALSO ALL ASPECTS CHARACTERISING THE GROWTH OF MARATHI LITERATURE. IT ALSO PRESENTS A CLEAR PICTURE OF DEVELOPMENT OF MARATHI LITERATURE FROM EARLY PERIOD TO THE PRESENT DAY. THE CONTRIBUTIONS OF MANY POETS, WRITERS, PLAYWRITERS, ESSAYIST AND CRITICS ARE GIVEN ALONG WITH THEIR BIOGRAPHICAL ACCOUNTS SUPPORTED BY BIBLIOGRAPHY. IT HAS SUCCESSFULLY CONVERTED A LONG JOURNEY OF MARATHI SINCE SAINT DNYANESHWAR TO TODAY'S NEW LITTLE MAGAZINE MOVEMENT. THE ENCYCLOPAEDIC DICTIONARY SERVES THE PURPOSE OF RESEARCH AND SURVEY OF MARATHI LITERATURE VERY WELL, BRINGING IN FULL CONTRIBUTIONS OF PROGRESSIVE POETS AND WRITERS. IT IS BOUND TO BE GITA FOR RESEARCHERS AS WELL AS EVERY COMMON MARATHI INDIVIDUAL AS IT HAS RICH REFERENCE VALUE.

BLACK HOLES JAYANT NARLIKAR 2006 A BLACK HOLE IS THE ULTIMATE MANIFESTATION OF A REGION OF STRONG GRAVITY. THE PULL OF GRAVITY IN A BLACK HOLE IS SO STRONG THAT EVEN LIGHT CANNOT ESCAPE FROM IT AND TIME STANDS STILL. THIS BOOK IS A SIMPLE YET METICULOUS STUDY OF THE CIRCUMSTANCES UNDER WHICH A BLACK HOLE IS FORMED AND ITS STRANGE PROPERTIES.

FUN AND FUNDAMENTALS OF MATHEMATICS J.V. NARLIKAR 2002-03 THIS BOOK INTRODUCES FUNDAMENTAL IDEAS IN MATHEMATICS THROUGH INTERESTING PUZZLES. STUDENTS, FROM AGE 12 UPWARDS, WHO ARE BORED WITH ROUTINE CLASSWORK IN MATHS WILL ENJOY THESE PUZZLES WHICH WILL SHARPEN WILL SHARPEN THEIR LOGICAL REASONING. IT IS DESIGNED TO AROUSE AN INTEREST IN MATHEMATICS AMONG READERS AMONG READERS IN THE 12-18 AGE GROUP.

VIOLENT PHENOMENA IN THE UNIVERSE JAYANT V. NARLIKAR 2012-10-16 ACCLAIMED BY NATURE AS "EXCELLENT AND UNCOMPROMISING," THIS READER-FRIENDLY BOOK EXPLORES EXPLODING STARS, BLACK HOLES, AND THE BIG BANG. CLEAR AND LIVELY, IT CONVEYS THE EXCITEMENT OF MODERN COSMOLOGY. 1982 EDITION.

FROM BLACK CLOUDS TO BLACK HOLES JAYANT VISHNU NARLIKAR 1995 PRESENTS A GENERAL INTRODUCTION TO MODERN (20TH

CENTURY) ASTRONOMY.

LECTURES ON GENERAL RELATIVITY AND COSMOLOGY JAYANT VISHNU NARLIKAR 1979

INTRODUCTION TO COSMOLOGY JAYANT V. NARLIKAR 1993-03-11 THIS INTRODUCTORY TEXTBOOK DESCRIBES MODERN COSMOLOGY AT A LEVEL SUITABLE FOR ADVANCED UNDERGRADUATES WHO ARE FAMILIAR WITH MATHEMATICAL METHODS AND BASIC THEORETICAL PHYSICS. AN INTRODUCTORY SURVEY OF THE LARGE SCALE STRUCTURE OF THE UNIVERSE IS FOLLOWED BY AN OUTLINE OF GENERAL RELATIVITY. THIS IS THEN USED TO CONSTRUCT THE STANDARD MODELS OF THE UNIVERSE. THE VERY EARLY AND EARLY STAGES OF THE BIG BANG ARE DESCRIBED, AND THIS INCLUDES PRIMORDIAL NUCLEOSYNTHESIS, GRAND UNIFIED THEORIES, PRIMORDIAL BLACK HOLES, AND THE ERA OF QUANTUM COSMOLOGY. THE PROBLEM OF THE FORMATION OF STRUCTURE IN THE UNIVERSE IS THEN ADDRESSED. THIS TEXTBOOK CONCLUDES WITH BRIEF OUTLINES OF ALTERNATIVE COSMOLOGIES. IT INCLUDES 400 PROBLEMS FOR STUDENTS TO SOLVE, AND IS ACCOMPANIED BY NUMEROUS WORKED EXAMPLES.

THE SCIENTIFIC EDGE JAYANT VISHNU NARLIKAR 2003 INDIA HAS A RICH HISTORY OF SCIENTIFIC ACCOMPLISHMENTS. IN THE FIFTH CENTURY, NEARLY ONE MILLENNIUM BEFORE COPERNICUS, THE INDIAN ASTRONOMER AND MATHEMATICIAN ARYABHATA THEORIZED THAT THE EARTH SPINS ON AN AXIS. LIKewise, IN THE TWENTIETH CENTURY PHYSICIST MEGHNAD SAHA S IONIZATION EQUATION OPENED THE DOOR TO STELLAR ASTROPHYSICS. BUT INDIA S SCIENTIFIC ACHIEVEMENTS HAVE OCCURRED AS FLASHES OF BRILLIANCE RATHER THAN AS A CLEAR TRAJECTORY OF PROGRESS. SO HOW DID INDIA, WITH ITS HISTORIC UNIVERSITY SYSTEM AND EXCELLENT OBSERVATORIES, LOSE ITS SCIENTIFIC EDGE? COSMOLOGIST, FOUNDER DIRECTOR OF THE INTER-UNIVERSITY CENTRE FOR ASTRONOMY AND ASTROPHYSICS, AND SCIENCE FICTION AUTHOR JAYANT V. NARLIKAR TRACKS THE HIGHS AND LOWS OF INDIAN SCIENCE ACROSS THE MILLENNIA, DISTINGUISHING FACT FROM FICTION. THROUGH A LIVELY NARRATIVE OF BREAKTHROUGHS AND FAILURES, HE EXPLORES INDIA S MULTIFACETED SCIENTIFIC HISTORY. NARLIKAR EXPLORES THE GLORIES OF INDIA S SCIENTIFIC ADVANCES AND QUESTIONS THE MORE FANCIFUL SO-CALLED DISCOVERIES. HIS ESSAYS ARE INVIGORATED BY HIS EXCITEMENT FOR NEW FINDINGS, AND HE ARGUES PASSIONATELY FOR PRESERVING THE TRUE SCIENTIFIC TEMPERAMENT INSTEAD OF GRANTING LEGITIMACY TO SUCH PSEUDOSCIENCES AS ASTROLOGY. ABOVE ALL, NARLIKAR RAISES ISSUES THAT BOTH THE LAY PERSON AND THE SCIENTIST NEED TO CONSIDER AS INDIA SEEKS TO LEAD THE WORLD IN INFORMATION TECHNOLOGY AND BIOTECHNOLOGY.

THE STRUCTURE OF THE UNIVERSE JAYANT VISHNU NARLIKAR 1977

SCIENCE AND MATHEMATICS JAYANT V. NARLIKAR 2021-08-30 THIS BOOK OFFERS AN ENGAGING AND COMPREHENSIVE INTRODUCTION TO SCIENTIFIC THEORIES, AND THE EVOLUTION OF SCIENCE AND MATHEMATICS THROUGH THE CENTURIES. IT DISCUSSES THE HISTORY OF SCIENTIFIC THOUGHT AND IDEAS AND THE INTRICATE DYNAMIC BETWEEN NEW SCIENTIFIC DISCOVERIES, SCIENTISTS, CULTURE, AND SOCIETIES. THROUGH STORIES AND HISTORICAL ACCOUNTS, THE VOLUME ILLUSTRATES THE HUMAN ENGAGEMENT AND PREOCCUPATION WITH SCIENCE AND THE INTERPRETATION OF NATURAL PHENOMENA. IT HIGHLIGHTS KEY SCIENTIFIC BREAKTHROUGHS FROM THE ANCIENT TO LATER AGES, GIVING US ACCOUNTS OF THE WORK OF ANCIENT GREEK AND INDIAN MATHEMATICIANS AND ASTRONOMERS AS WELL AS OF THE WORK OF MODERN SCIENTISTS LIKE DESCARTES, NEWTON, PLANCK, MENDEL AND MANY MORE. THE AUTHOR ALSO DISCUSSES THE VAST ADVANCEMENTS WHICH HAVE BEEN MADE IN THE EXPLORATION OF SPACE, MATTER, AND GENETICS AND THEIR RELEVANCE IN THE ADVANCEMENT OF THE SCIENTIFIC TRADITION. HE PROVIDES GREAT INSIGHTS INTO THE PROCESS OF SCIENTIFIC EXPERIMENTATION AND THE RELATIONSHIP BETWEEN SCIENCE AND MATHEMATICS. HE ALSO SHARES AMUSING ANECDOTES OF SCIENTISTS AND THEIR INTERACTIONS WITH THE WORLD AROUND THEM. DETAILED AND ACCESSIBLE, THIS BOOK WILL BE OF GREAT INTEREST TO STUDENTS AND RESEARCHERS OF SCIENCE, MATHEMATICS, THE PHILOSOPHY OF SCIENCE, SCIENCE AND TECHNOLOGY STUDIES, AND HISTORY. IT WILL ALSO BE USEFUL FOR GENERAL READERS WHO ARE INTERESTED IN THE HISTORY OF SCIENTIFIC DISCOVERIES AND IDEAS.

THE LIGHTER SIDE OF GRAVITY JAYANT VISHNU NARLIKAR 1996-10-03 GRAVITY IS THE MOST ENIGMATIC OF ALL KNOWN BASIC FORCES IN NATURE. YET IT CONTROLS EVERYTHING FROM THE MOTION OF OCEAN TIDES TO THE EXPANSION OF THE ENTIRE UNIVERSE. MANY BOOKS USE TECHNICAL JARGON AND HIGH-POWERED MATHS TO EXPLAIN WHAT GRAVITY IS ALL ABOUT. IN *THE LIGHTER SIDE OF GRAVITY*, THE PRESENTATION IS BEAUTIFULLY CLEAR AND COMPLETELY NON-TECHNICAL. FAMILIAR ANALOGIES, INTERESTING ANECDOTES AND NUMEROUS ILLUSTRATIONS ARE USED THROUGHOUT TO GET ACROSS SUBTLE EFFECTS AND DIFFICULT POINTS. THE COVERAGE IS, HOWEVER, COMPREHENSIVE AND MAKES NO COMPROMISE WITH ACCURACY. THIS SECOND EDITION HAS BEEN BROUGHT COMPLETELY UP TO DATE AND EXPANDED TO INCLUDE THE DISCOVERY OF GIGANTIC GRAVITATIONAL LENSES IN SPACE, THE FINDINGS OF THE COBE SATELLITE, THE DETECTION OF MACHOS, THE INVESTIGATIONS OF THE VERY EARLY UNIVERSE AND OTHER NEW IDEAS IN COSMOLOGY. IN SHORT, THIS LUCID AND STIMULATING BOOK PRESENTS 'THE LIGHTER SIDE' OF THE INTRIGUING PHENOMENA OF 'GRAVITY' TO THE STUDENT AND GENERAL READER.

GRAVITY, GAUGE THEORIES AND QUANTUM COSMOLOGY J.V. NARLIKAR 2012-12-06 FOR SEVERAL DECADES SINCE ITS INCEPTION, EINSTEIN'S GENERAL THEORY OF RELATIVITY STOOD SOMEWHAT ALOOF FROM THE REST OF PHYSICS. PARADOXICALLY, THE ATTRIBUTES WHICH NORMALLY BOOST A PHYSICAL THEORY - NAMELY, ITS PERFECTION AS A THEORETICAL FRAMEWORK AND THE EXTRAORDINARY INTELLECTUAL ACHIEVEMENT UNDERLYING IT - PREVENTED THE GENERAL THEORY FROM BEING ASSIMILATED IN THE MAINSTREAM OF PHYSICS. IT WAS AS IF THEORETICIANS HESITATED TO TAMPER WITH SOMETHING THAT IS MANIFESTLY SO BEAUTIFUL. HAPPILY, TWO DEVELOPMENTS IN THE 1970S HAVE NARROWED THE GAP. IN 1974 STEPHEN HAWKING ARRIVED AT THE REMARKABLE RESULT THAT BLACK HOLES RADIATE AFTER ALL. AND IN THE SECOND HALF OF THE DECADE, PARTICLE PHYSICISTS DISCOVERED THAT THE ONLY SCENARIO FOR APPLYING THEIR GRAND UNIFIED THEORIES WAS OFFERED BY THE VERY EARLY PHASE IN THE HISTORY OF THE BIG BANG UNIVERSE. IN BOTH CASES, IT WAS NECESSARY TO DISCUSS THE IDEAS OF QUANTUM FIELD THEORY IN THE BACKGROUND OF CURVED SPACETIME THAT IS BASIC TO GENERAL RELATIVITY. THIS IS, HOWEVER, ONLY HALF THE TOTAL STORY. IF GRAVITY IS TO BE BROUGHT INTO THE GENERAL FOLD OF THEORETICAL PHYSICS WE HAVE TO KNOW HOW TO QUANTIZE IT. TO DATE THIS HAS PROVED A FORMIDABLE TASK ALTHOUGH MOST PHYSICISTS WOULD AGREE THAT, AS IN THE CASE OF GRAND UNIFIED THEORIES, QUANTUM GRAVITY WILL HAVE APPLICATIONS TO COSMOLOGY, IN THE VERY EARLY STAGES OF THE BIG BANG UNIVERSE. IN FACT, THE PRESENT PICTURE OF THE BIG BANG UNIVERSE NECESSARILY FORCES US TO THINK OF QUANTUM COSMOLOGY.

CURRENT ISSUES IN COSMOLOGY JEAN-CLAUDE PECKER 2006-06 A COMPREHENSIVE COVERAGE OF THE EXPANDING FIELD OF COSMOLOGY FOR GRADUATE STUDENTS AND RESEARCHERS.

IT HAPPENED TOMORROW B. P. A. PHOENIX 1993 THIS ANTHOLOGY OF 19 SELECT STORIES PRESENTS THE TRENDS IN INDIAN SCIENCE FICTION WHERE THE BASIC THEME, BE IT ANY LANGUAGE, IS PRIMARILY ANTHROPOCENTRIC, DEALING WITH THE INTERPLAY BETWEEN SCIENTIFIC DEVELOPMENTS AND HUMAN EMOTIONS OR SOCIETAL FOUNDATIONS.

LECTURES ON COSMOLOGY AND ACTION AT A DISTANCE ELECTRODYNAMICS FRED HOYLE 1996-07-03 THIS BOOK DESCRIBES THE SUBJECT OF ELECTRODYNAMICS AT CLASSICAL AS WELL AS QUANTUM LEVEL, DEVELOPED AS AN INTERACTION AT A DISTANCE. THUS IT HAS ELECTRIC CHARGES INTERACTING WITH ONE ANOTHER DIRECTLY AND NOT THROUGH THE MEDIUM OF A FIELD. IN GENERAL SUCH AN INTERACTION TRAVELS FORWARD AND BACKWARD IN TIME SYMMETRICALLY, THUS APPARENTLY VIOLATING THE PRINCIPLE OF CAUSALITY. IT TURNS OUT, HOWEVER, THAT IN SUCH A DESCRIPTION THE COSMOLOGICAL BOUNDARY CONDITIONS BECOME VERY IMPORTANT. THE THEORY THEREFORE WORKS ONLY IN A COSMOLOGY WITH THE RIGHT BOUNDARY CONDITIONS; BUT WHEN IT DOES WORK IT IS FREE FROM THE DIVERGENCES THAT PLAGUE A QUANTUM FIELD THEORY. CONTENTS:CLASSICAL ELECTRODYNAMICS:HISTORICAL BACKGROUND THE PROBLEMS OF CLASSICAL FIELD THEORY N. MANABERDIAZIAN THEORY OF RADIATION ACTION AT A DISTANCE IN CURVED SPACETIME COSMOLOGICAL MODELS RESPONSE OF THE EXPANDING UNIVERSE QUANTUM ELECTRODYNAMICS NON-RELATIVISTIC PROCESSES: THE PATH-INTEGRAL APPROACH TO QUANTUM MECHANICS PERTURBATION THEORY AND THE INFLUENCE FUNCTIONAL ABSORPTION AND STIMULATED EMISSION SPONTANEOUS EMISSION THE COMPLETE INFLUENCE FUNCTIONAL AND THE LEVEL SHIFT FORMULA RELATIVISTIC QUANTUM ELECTRODYNAMICS: PATH INTEGRALS FOR RELATIVISTIC PARTICLES MANY PARTICLE INTERACTIONS AND THE QUANTUM RESPONSE OF THE UNIVERSE SELF ACTION COSMOLOGICAL CUT-OFFS TO RADIATIVE CORRECTIONS CONCLUDING REMARKS READERSHIP: UNDERGRADUATES AND RESEARCH STUDENTS IN PHYSICS AND COSMOLOGY. KEYWORDS: ACTION AT A DISTANCE; ELECTRODYNAMICS; WHEELER-FEYNMAN THEORY; RESPONSE OF THE UNIVERSE; DIRECT PARTICLE FIELDS; ARROW OF TIME; COSMOLOGY AND QUANTUM; ELECTRODYNAMICS; QED WITHOUT FIELDS

TEACHING AND LEARNING ASTRONOMY JAY PASACHOFF 2005-12-15 THIS VOLUME HIGHLIGHTS ASTRONOMY IN THE CURRICULUM, AND ADDRESSES HOW THE TEACHING AND LEARNING OF ASTRONOMY CAN BE IMPROVED WORLDWIDE.

THE UNIVERSE NARESH DADHICH 2012-12-06 IT IS WITH GREAT JOY THAT WE PRESENT A COLLECTION OF ESSAYS WRITTEN IN HONOUR OF JAYANT VISHNU NARLIKAR, WHO COMPLETED 60 YEARS OF AGE ON JULY 19, 1998, BY HIS FRIENDS AND COLLEAGUES, INCLUDING SEVERAL OF HIS FORMER STUDENTS. JAYANT HAS HAD A LONG RESEARCH CAREER IN ASTROPHYSICS AND COSMOLOGY, WHICH HE BEGAN AT CAMBRIDGE IN 1960, AS A STUDENT OF SIR FRED HOYLE. HE STARTED HIS WORK WITH A BIG BANG, EXPOUNDING ON THE STEADY STATE THEORY OF THE UNIVERSE AND CREATING A NEW THEORY OF GRAVITY INSPIRED BY MACH'S PRINCIPLE. HE ALSO WORKED ON ACTION-AT-A-DISTANCE ELECTRODYNAMICS, INSPIRED BY THE EXPLORATIONS OF WHEELER, FEYNMAN AND HOGARTH IN THAT DIRECTION. THIS BODY OF WORK ESTABLISHED JAYANT'S REPUTATION AS A BOLD AND IMAGINATIVE PHYSICIST WHO WAS EVER WILLING TO TAKE A FRESH LOOK AT FUNDAMENTAL ISSUES, UNDETERRED BY CONVENTIONAL WISDOM. THIS TRAIT, UNDOUBTEDLY INHERITED FROM HIS TEACHER AND MENTOR, HAS ALWAYS REMAINED WITH JAYANT. IT IS NOW MOST EVIDENT IN HIS UNTIRING EFFORTS TO UNDERSTAND ANOMALIES IN QUASAR ASTRONOMY, AND TO DEVELOP THE QUASI-STEADY STATE COSMOLOGY, ALONG WITH A GROUP OF HIGHLY DISTINGUISHED ASTRONOMERS INCLUDING HALTON ARP, GEOFFREY BURBIDGE AND FRED HOYLE. IN SPITE OF ALL THIS ICONOCLASTIC ACTIVITY, JAYANT REMAINS A PART OF THE MAINSTREAM; HE

APPRECIATES AS WELL AS ENCOURAGES GOOD WORK ALONG CONVENTIONAL LINES BY HIS STUDENTS AND COLLEAGUES. THIS IS CLEAR FROM THE RANGE OF ESSAYS INCLUDED IN THIS VOLUME, AND THE VARIETY AND DISTRIBUTION OF THE ESSAYISTS.

QUASARS AND ACTIVE GALACTIC NUCLEI AJIT K. KEMBHAVI 1999-03-11 THE LATEST OBSERVATIONS AND THEORETICAL MODELS ARE COMBINED IN THIS CLEAR, PEDAGOGIC TEXTBOOK FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS.

AN INTRODUCTION TO RELATIVITY JAYANT V. NARLIKAR 2010-01-28 GENERAL RELATIVITY IS NOW AN ESSENTIAL PART OF UNDERGRADUATE AND GRADUATE COURSES IN PHYSICS, ASTROPHYSICS AND APPLIED MATHEMATICS. THIS SIMPLE, USER-FRIENDLY INTRODUCTION TO RELATIVITY IS IDEAL FOR A FIRST COURSE IN THE SUBJECT. BEGINNING WITH A COMPREHENSIVE BUT SIMPLE REVIEW OF SPECIAL RELATIVITY, THE BOOK CREATES A FRAMEWORK FROM WHICH TO LAUNCH THE IDEAS OF GENERAL RELATIVITY. AFTER DESCRIBING THE BASIC THEORY, IT MOVES ON TO DESCRIBE IMPORTANT APPLICATIONS TO ASTROPHYSICS, BLACK HOLE PHYSICS, AND COSMOLOGY. SEVERAL WORKED EXAMPLES, AND NUMEROUS FIGURES AND IMAGES, HELP STUDENTS APPRECIATE THE UNDERLYING CONCEPTS. THERE ARE ALSO 180 EXERCISES WHICH TEST AND DEVELOP STUDENTS' UNDERSTANDING OF THE SUBJECT. THE TEXTBOOK PRESENTS ALL THE NECESSARY INFORMATION AND DISCUSSION FOR AN ELEMENTARY APPROACH TO RELATIVITY. PASSWORD-PROTECTED SOLUTIONS TO THE EXERCISES ARE AVAILABLE TO INSTRUCTORS AT WWW.CAMBRIDGE.ORG/9780521735612.

ASTRONOMY IN INDIA: A HISTORICAL PERSPECTIVE THANU PADMANABHAN 2014-08-20 INDIA HAS A STRONG AND ANCIENT TRADITION OF ASTRONOMY, WHICH SEAMLESSLY MERGES WITH THE CURRENT ACTIVITIES IN ASTRONOMY AND ASTROPHYSICS IN THE COUNTRY. WHILE THE YOUNGER GENERATION OF ASTRONOMERS AND STUDENTS ARE REASONABLY FAMILIAR WITH THE CURRENT FACILITIES AND THE ASTRONOMICAL RESEARCH, THEY MIGHT NOT HAVE AN EQUALLY GOOD KNOWLEDGE OF THE RICH HISTORY OF INDIAN ASTRONOMY. THIS PARTICULAR VOLUME, BROUGHT OUT AS A PART OF THE PLATINUM JUBILEE CELEBRATIONS OF INDIAN NATIONAL SCIENCE ACADEMY, CONCENTRATES ON SELECTED ASPECTS OF HISTORICAL DEVELOPMENT OF INDIAN ASTRONOMY IN THE FORM OF SIX INVITED CHAPTERS. TWO OF THE CHAPTERS – BY BALACHANDRA RAO AND M.S. SRIRAM – COVER ANCIENT ASTRONOMY AND THE DEVELOPMENT OF CALCULUS IN THE ANCIENT KERALA TEXT YUKTIBHASA. THE OTHER FOUR CHAPTERS BY B.V. SREEKANTAN, SIRAJ HASAN, GOVIND SWARUP AND JAYANT NARLIKAR DEAL WITH THE CONTEMPORARY HISTORY OF INDIAN ASTRONOMY COVERING SPACE ASTRONOMY, OPTICAL ASTRONOMY, RADIO ASTRONOMY AND DEVELOPMENTS IN RELATIVISTIC ASTROPHYSICS. THESE CHAPTERS, WRITTEN BY EXPERTS IN THE FIELD, PROVIDE AN IN-DEPTH STUDY OF THE SUBJECT AND MAKE THIS VOLUME QUITE UNIQUE.

A JOURNEY THROUGH THE UNIVERSE JAYANT VISHNU NARLIKAR 1997

A COSMIC ADVENTURE JAYANT VISHNU NARLIKAR 2000

FACTS AND SPECULATIONS IN COSMOLOGY JAYANT NARLIKAR 2008-07-03 THOUGHT-PROVOKING BOOK FOR UNDERGRADUATE STUDENTS AND GENERAL READERS ON THE EVOLUTION OF COSMOLOGY.

THE RISE AND FALL OF THE BLACK HOLE PARADIGM ABHAS MITRA 2021-01-22 BLACK HOLES HAVE TURNED OUT TO BE THE CORNERSTONE OF BOTH PHYSICS AND POPULAR BELIEF. BUT WHAT IF WE WERE TO REALIZE THAT EXACT BLACK HOLES CANNOT EXIST, EVEN THOUGH THEIR EXISTENCE IS APPARENTLY SUGGESTED BY EXACT GENERAL RELATIVISTIC SOLUTIONS, AND ROGER PENROSE WON THE 2020 NOBEL PRIZE IN PHYSICS 'FOR THE DISCOVERY THAT BLACK HOLE FORMATION IS A ROBUST PREDICTION OF THE GENERAL THEORY OF RELATIVITY'? WHILE IT MIGHT SEEM FAR-FETCHED TO CLAIM SO, IT WILL BE WORTH REMEMBERING THAT THE FINEST THEORETICAL PHYSICISTS LIKE ALBERT EINSTEIN AND PAUL DIRAC DID NOT BELIEVE IN BLACK HOLES, AND STEPHEN HAWKING FINALLY THOUGHT THAT THERE ARE NO EXACT BLACK HOLES. WHILE THE BLACK HOLE PARADIGM HAS BECOME COMMONPLACE IN POPULAR CONSCIOUSNESS, IN THE LAST DECADE, NOISE HAS CONSISTENTLY GROWN ABOUT THE MANY PHYSICAL EFFECTS WHICH CAN INHIBIT THE FORMATION OF EXACT MATHEMATICAL BLACK HOLES. IN THE RISE AND FALL OF THE BLACK HOLE PARADIGM, ABHAS MITRA SHOWS US HOW, MUCH BEFORE THESE DEVELOPMENTS, HE HAD PROVEN WHY THE SO-CALLED BLACK HOLES MUST ONLY BE BLACK HOLE PRETENDERS. HE IDENTIFIED THESE BLACK HOLE CANDIDATES TO BE MAGNETOSPHERIC ETERNALLY COLLAPSING OBJECTS (MECOs) AND, ALONG WITH DARRYL J. LEITER AND STANLEY L. ROBERTSON, GENERALIZED THEM. RECENT EVIDENCE FOR THE EXISTENCE OF STRONG MAGNETIC FIELDS AROUND SO-CALLED BLACK HOLES MAY PROVIDE CONFIRMATIONS OF HIS CLAIM.

TALES OF THE FUTURE JAYANT VISHNU NARLIKAR 2005

LECTURES ON GENERAL RELATIVITY AND COSMOLOGY JAYANT VISHNU NARLIKAR 2013-12-31

A DIFFERENT APPROACH TO COSMOLOGY F. HOYLE 2000-02-17 THIS IS A DIFFERENT KIND OF BOOK ABOUT COSMOLOGY, A FIELD OF MAJOR INTEREST TO PROFESSIONAL ASTRONOMERS, PHYSICISTS, AND THE GENERAL PUBLIC. ALL RESEARCH IN COSMOLOGY ADOPTS ONE MODEL OF THE UNIVERSE, THE HOT BIG BANG MODEL. BUT FRED HOYLE, GEOFFREY BURBIDGE AND JAYANT NARLIKAR TAKE A DIFFERENT APPROACH. STARTING WITH THE BEGINNINGS OF MODERN COSMOLOGY, THEY THEN CONDUCT A WIDE RANGING AND DEEP REVIEW OF THE OBSERVATIONS MADE FROM 1945 TO THE PRESENT DAY. HERE THEY CHALLENGE MANY CONVENTIONAL INTERPRETATIONS. THE LATTER PART OF THE BOOK PRESENTS THE AUTHORS' OWN ACCOUNT OF THE PRESENT STATUS OF OBSERVATIONS AND HOW THEY SHOULD BE EXPLAINED. THE CONTROVERSIAL THEME IS THAT THE DEPENDENCY ON THE HOT BIG BANG MODEL HAS LED TO AN UNWARRANTED REJECTION OF ALTERNATIVE COSMOLOGICAL MODELS. WRITING FROM THE HEART, WITH PASSION AND PUNCH, THESE THREE COSMOLOGISTS MAKE A POWERFUL CASE FOR VIEWING THE UNIVERSE IN A DIFFERENT LIGHT.

SCIENCE AND MATHEMATICS JAYANT V. NARLIKAR 2021-11-30 THIS BOOK OFFERS AN ENGAGING AND COMPREHENSIVE INTRODUCTION TO SCIENTIFIC THEORIES AND THE EVOLUTION OF SCIENCE AND MATHEMATICS THROUGH THE CENTURIES. IT DISCUSSES THE HISTORY OF SCIENTIFIC THOUGHT AND IDEAS AND THE INTRICATE DYNAMIC BETWEEN NEW SCIENTIFIC DISCOVERIES, SCIENTISTS, CULTURE AND SOCIETIES. THROUGH STORIES AND HISTORICAL ACCOUNTS, THE VOLUME ILLUSTRATES THE HUMAN ENGAGEMENT AND PREOCCUPATION WITH SCIENCE AND THE INTERPRETATION OF NATURAL PHENOMENA. IT HIGHLIGHTS KEY SCIENTIFIC BREAKTHROUGHS FROM THE ANCIENT TO LATER AGES, GIVING US ACCOUNTS OF THE WORK OF ANCIENT GREEK AND INDIAN MATHEMATICIANS AND ASTRONOMERS, AS WELL AS OF THE WORK OF MODERN SCIENTISTS LIKE DESCARTES, NEWTON, PLANCK, MENDEL AND MANY MORE. THE AUTHOR ALSO DISCUSSES THE VAST ADVANCEMENTS WHICH HAVE BEEN MADE IN THE EXPLORATION OF SPACE, MATTER AND GENETICS AND THEIR RELEVANCE IN THE ADVANCEMENT OF THE SCIENTIFIC TRADITION. HE PROVIDES GREAT INSIGHTS INTO THE PROCESS OF SCIENTIFIC EXPERIMENTATION AND THE RELATIONSHIP BETWEEN SCIENCE AND MATHEMATICS. HE ALSO SHARES AMUSING ANECDOTES OF SCIENTISTS AND THEIR INTERACTIONS WITH THE WORLD AROUND THEM. DETAILED AND ACCESSIBLE, THIS BOOK WILL BE OF GREAT INTEREST TO STUDENTS AND RESEARCHERS OF SCIENCE, MATHEMATICS, THE PHILOSOPHY OF SCIENCE, SCIENCE AND TECHNOLOGY STUDIES AND HISTORY. IT WILL ALSO BE USEFUL FOR GENERAL READERS WHO ARE INTERESTED IN THE HISTORY OF SCIENTIFIC DISCOVERIES AND IDEAS.

AN INSPIRATIONAL JOURNEY: PRATIBHA DEVISINGH PATIL MAHAJAN, CHHAYA BHAWAN 2010 AN INSPIRATIONAL JOURNEY : PRATIBHA DEVISINGH PATIL THE FIRST WOMAN PRESIDENT OF INDIA - IS AN ATTEMPT TO UNDERSTAND THE LIFE AND WORKS OF THE FIRST CITIZEN OF INDIA PRIOR TO HER OCCUPYING THE COVETED POSITION. IN THE LATE FIFTIES AND EARLY SIXTIES WHEN THE DISCOURAGING FORCES AGAINST WOMEN WERE PREDOMINANT, PRATIBHATAI EXCELLED IN ACADEMICS. IT WAS HER WILL POWER, CONVICTION AND PURITY OF PURPOSE WHICH PROPELLED HER INTO POLITICS AND FINALLY ELECTED TO BE THE FIRST WOMAN PRESIDENT OF INDIA, ONLY SKY IS THE LIMIT. PRATIBHATAI'S LIFE IS A STORY, HER JOURNEY IN LIFE HAS BEEN SO EVENTFUL, HER ACHIEVEMENTS ARE SO LARGE AND VARIED. SHE HAS HAD A POLITICAL CAREER WHICH KEPT MOVING UPWARDS, GRADUALLY AND STEADILY, TILL SHE FINALLY REACHED THE PINNACLE. SHE HUMBLY ATTRIBUTES HER SUCCESS TO THE ALMIGHTY AND TO THE PEOPLE OF INDIA. THE BOOK IS A PROGRESSIVE EFFORT TO ILLUSTRATE HER POLITICAL PARTICIPATION AS WELL AS HER ATTACHMENT TOWARDS THE FAMILY AND EMERGED HER A WINNER ON BOTH THE FRONTS EFFECTIVELY. SIMPLY HER ACHIEVEMENTS ARE SO LARGE AND VARIED THAT THEY NEED TO BE NARRATED - ' ;THOSE WHO DO NOT SPEAK ABOUT THEMSELVES NEED TO BE SPOKEN ABOUT.'

MY TALE OF FOUR CITIES JAYANT VISHNU NARLIKAR 2014 AUTOBIOGRAPHICAL REMINISCENCES OF JAYANT VISHNU NARLIKAR, AN ASTROPHYSICIST AND SCIENCE FICTION WRITER IN MARATHI.

AN INTRODUCTION TO COSMOLOGY J. V. NARLIKAR 2002-01-10 PUBLISHER DESCRIPTION

THE RETURN OF VAMAN - A SCIENTIFIC NOVEL JAYANT V. NARLIKAR 2015-05-28 THIS COLLECTION OF SCIENCE FICTION WRITINGS BY JAYANT V. NARLIKAR OFFERS READERS A UNIQUE GLIMPSE INTO THE WORLD-FAMOUS INDIAN ASTROPHYSICIST'S VIVID AND HIGHLY IMAGINATIVE CONCEPTS AND STORIES. THE FICTIONAL MATERIAL COMPRISES A WITTY SHORT STORY ("THE RARE IDOL OF GANESHA") THAT CLEVERLY EXPLORES THE POSSIBLE CONSEQUENCES OF A MIRROR-SYMMETRIC INDIVIDUAL IN THE CONTEXT OF CRICKET TEST MATCH PERFORMANCES, AS WELL AS THE FAST-PACED, GRIPPING SCIENCE FICTION THRILLER "THE RETURN OF VAMAN": WHEN AN ALIEN CONTAINER IS UNEARTHED BY A CREW OF SCIENTISTS, THE ENORMOUS POTENTIAL TECHNOLOGICAL APPLICATIONS OF ITS CONTENTS BRING VARIOUS CRIMINAL ELEMENTS ON THE SCENE - BUT WHEN THE REAL DANGER BECOMES APPARENT IT IS ALMOST TOO LATE TO SAVE HUMANITY. LAST BUT NOT LEAST, THE BOOK PROVIDES READERS WITH EXTENSIVE INSIGHTS INTO THE GENESIS AND SCIENTIFIC BACKGROUND OF THE FICTIONAL MATERIAL PRESENTED IN THIS VOLUME, ALONG WITH AN AUTOBIOGRAPHICAL ACCOUNT OF THE AUTHOR'S LIFE-LONG INTEREST IN SCIENCE FICTION AND HIS CONTRIBUTIONS TO THE GENRE. ABOUT THE AUTHOR: JAYANT V. NARLIKAR IS INTERNATIONALLY KNOWN FOR HIS WORK IN COSMOLOGY, IN PARTICULAR FOR CHAMPIONING MODELS ALTERNATIVE TO THE STANDARD BIG-BANG THEORY. HE WAS PRESIDENT OF THE COSMOLOGY COMMISSION OF THE INTERNATIONAL ASTRONOMICAL UNION FROM 1994 TO 1997. HE HAS RECEIVED SEVERAL NATIONAL AND INTERNATIONAL AWARDS AND HONORARY

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SCIENCE FICTION AND INDIAN WOMEN WRITERS URVASHI KUHAD 2021-07-29 SCIENCE FICTION, AS A LITERATURE OF FANTASY, GOES BEYOND THE MUNDANE TO ASK THE QUESTION: WHAT IF THE WORLD WERE DIFFERENT FROM THE WAY IT IS? IT OFTEN CHALLENGES THE REAL, BUILDS ON IMAGINATION, PLACES NO LIMITS ON HUMAN CAPACITIES, AND ENCOURAGES READERS TO THINK OUTSIDE THEIR SOCIAL AND CULTURAL CONDITIONING. THIS BOOK PRESENTS A SYSTEMATIC STUDY OF INDIAN WOMEN'S SCIENCE FICTION. IT OFFERS A CRITICAL ANALYSIS OF THE WORKS OF FOUR FEMALE INDIAN WRITERS OF SCIENCE FICTION: ROKEYA SAKHWAT HOSSAIN, MANJULA PADMANABHAN, PRIYA SARUKKAI CHABRIA AND VANDANA SINGH. THE AUTHOR CONSIDERS NOT ONLY THE EVOLUTION OF SCIENCE FICTION WRITING IN INDIA, BUT ALSO DISCUSSES THE USE OF INNOVATIONS AND UNIQUE THEMES INCLUDING SCIENCE FICTION IN DIFFERENT INDIAN LANGUAGES; THE LITERARY, POLITICAL, AND EDUCATIONAL ACTIVISM OF THE WOMEN WRITERS; AND ECO-FEMINISM AND THE IDEA OF CLONING IN WRITING, TO ARGUE THAT THIS GENRE COULD BE VIEWED AS A VIBRANT REPRESENTATION OF FREEDOM OF EXPRESSION AND RADICAL LITERATURE. THIS GROUND-BREAKING VOLUME WILL BE USEFUL FOR SCHOLARS AND RESEARCHERS OF ENGLISH LITERATURE. IT WILL ALSO PROVE A VERY USEFUL SOURCE FOR FURTHER STUDIES INTO INDIAN LITERATURE, SCIENCE AND TECHNOLOGY STUDIES, WOMEN'S AND GENDER STUDIES, COMPARATIVE LITERATURE AND CULTURAL STUDIES.

THE PRIMEVAL UNIVERSE JAYANT VISHNU NARLIKAR 1988 THE FASCINATING FRONTIER OF MODERN COSMOLOGICAL RESEARCH LIES IN THE STUDY OF THE VERY EARLY HISTORY OF THE UNIVERSE. THIS BOOK CAPTURES THE EXCITEMENT OF SCIENTIFIC INVESTIGATION CONCERNING THE ORIGINS OF THE UNIVERSE AND THE NATURE OF PHYSICAL LAWS. IT DESCRIBES THE CURRENT SEARCH FOR ANSWERS TO PERSISTENT, FUNDAMENTAL QUESTIONS. DID THE UNIVERSE HAVE A BEGINNING? IS IT DOMINATED BY MATTER RATHER THAN ANTIMATTER? WHY, HOW, AND WHEN DID GALAXIES FORM? WHAT IS THE NATURE OF MATTER THAT CANNOT BE SEEN BUT IS BELIEVED TO EXIST? CAN COSMOLOGY SUPPLY CLUES TO THE RIDDLE OF UNIFICATION OF ALL LAWS OF PHYSICS? COMBINING A DESCRIPTION OF THE LATEST DISCOVERIES WITH A REVIEW OF BASIC PHYSICAL LAWS, THIS REMARKABLE WORK WILL INTEREST MANY GENERAL READERS AS WELL AS STUDENTS AND RESEARCHERS IN ASTRONOMY AND PHYSICS.

THE COSMIC EXPLOSION JAYANT VISHNU NARLIKAR 1992 THE STORY BEGINS IN THE SEVENTH CENTURY DURING THE REIGN OF THE KING HARSHAVARDHANA. BHIKKU SARIPUTTA, THE HEAD OF THE BUDDHIST VIHAR AT STHANVISHWAR IS A KEEN OBSERVER OF THE STAR-STudded HEAVENS. HIS PET STUDENT ROHIT WITNESSES A REMARKABLE SIGHT IN THE SKY AND RUSHES TO HIS TEACHER FOR GUIDANCE. SARIPUTTA SUSPECTS THAT THE EVENT IS OF SUCH GREAT SIGNIFICANCE THAT HE IMMEDIATELY REPORTS IT TO THE KING. AT THE KING'S BEHEST WITH ROHIT'S HELP SARIPUTTA PREPARES METICULOUS RECORDS OF THE EVENT WHICH HE Buries UNDERGROUND FOR POSTERITY. IT IS IN THE TWENTIETH CENTURY THAT THE RECORDS IN THE FORM OF BRASS PLATES ARE ACCIDENTALLY UNEARTHED. TATYASAHEB BHAGVAT, A SCHOLAR ON ANCIENT INDIAN STUDIES AND THE ASTROPHYSICIST AVINASH NENE TOGETHER FIND MIGHT HAVE MOMENTOUS IMPLICATIONS FOR THE EARTH AND ITS INHABITANTS. DID THE EVENT RECORDS BY SARIPUTTA SPELL DOOM? THE FINAL PART OF THE NOVEL TELLS US WHAT HAPPENED SEVERAL MORE CENTURIES LATER...

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