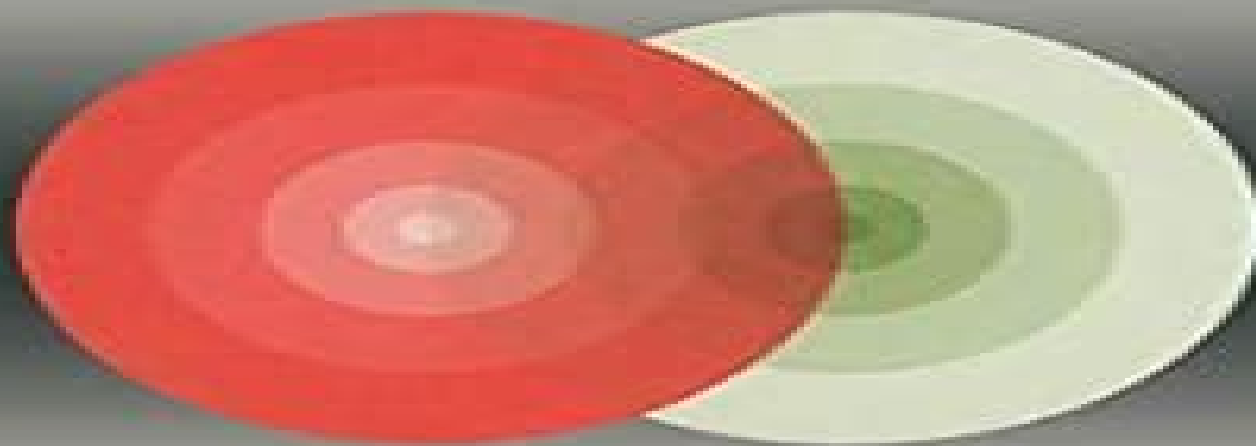


Time: Towards a Consistent Theory

by
C. K. Raju

Springer-Science+Business Media, B.V.



Fundamental Theories of Physics

Time Towards A Consistent Theory Fundamental Theories Of Physics

Michael Seilmaier



Time Towards A Consistent Theory Fundamental Theories Of Physics:

Time: Towards a Consistent Theory C.K. Raju, 2013-03-14 Is time even locally like the real line Multiple structures of time implicit in physics create a consistency problem A tilt in the arrow of time is suggested as the most conservative hypothesis which provides approximate consistency within physics and with topology of mundane time Mathematically the assumed constancy of the velocity of light needed to measure time implies functional differential equations of motion that have both retarded and advanced deviating arguments with the hypothesis of a tilt The novel features of such equations lead to a nontrivial structure of time and quantum mechanical behaviour The entire argument is embedded in a pedagogical exposition which amplifies corrects and questions the conventionally accepted approach The exposition includes historical details and explains for instance why the entropy law is inadequate for time asymmetry and why notions such as time asymmetry hence causality may be conceptually inadequate The first three parts of the book are especially suited as supplementary reading material for undergraduate and graduate students and teachers of physics The new ideas are addressed to researchers in physics and philosophy of science concerned with relativity and the interpretation of quantum mechanics

Cultural Foundations of Mathematics C. K. Raju, 2007 The Volume Examines In Depth The Implications Of Indian History And Philosophy For Contemporary Mathematics And Science The Conclusions Challenge Current Formal Mathematics And Its Basis In The Western Dogma That Deduction Is Infallible Or That It Is Less Fallible Than Induction The Development Of The Calculus In India Over A Thousand Years Is Exhaustively Documented In This Volume Along With Novel Insights And Is Related To The Key Sources Of Wealth Monsoon Dependent Agriculture And Navigation Required For Overseas Trade And The Corresponding Requirement Of Timekeeping Refecting The Usual Double Standard Of Evidence Used To Construct Eurocentric History A Single New Standard Of Evidence For Transmissions Is Proposed Using This It Is Pointed Out That Jesuits In Cochin Following The Toledo Model Of Translation Had Long Term Opportunity To Transmit Indian Calculus Texts To Europe The European Navigational Problem Of Determining Latitude Longitude And Loxodromes And The 1582 Gregorian Calendar Reform Provided Ample Motivation The Mathematics In These Earlier Indian Texts Suddenly Starts Appearing In European Works From The Mid 16Th Century Onwards Providing Compelling Circumstantial Evidence While The Calculus In India Had Valid Pramana This Differed From Western Notions Of Proof And The Indian Algorismus Notion Of Number Differed From The European Abacus Notion Hence Like Their Earlier Difficulties With The Algorismus Europeans Had Difficulties In Understanding The Calculus Which Like Computer Technology Enhanced The Ability To Calculate Albeit In A Way Regarded As Epistemologically Insecure Present Day Difficulties In Learning Mathematics Are Related Via Phylogeny Is Ontogeny To These Historical Difficulties In Assimilating Imported Mathematics An Appendix Takes Up Further Contemporary Implications Of The New Philosophy Of Mathematics For The Extension Of The Calculus Which Is Needed To Handle The Infinities Arising In The Study Of Shock Waves And The Renormalization Problem

Of Quantum Field Theory **Ending Academic Imperialism** C. K. Raju, 2011-07-09 Academic Imperialism begins with Western education which has not been seriously challenged in hard sciences Colonialism changed the system of education as a key means of containing revolt and stabilising Western rule The change was possible e g by Macaulay in India just because a large section of the colonised elite had already swallowed the racist beliefs of the 18th c CE that only the West had innovated in science Those racist beliefs in turn were based on a bad history and philosophy of science violently distorted by the religious fanaticism which overwhelmed Europe from the Crusades in the 11th c CE until the 17th c CE Therefore to end academic imperialism it is necessary to take the following four steps a Dismantle and expose the falsehoods of this Western history of science b Change also the accompanying philosophy of science c Use this to construct a new pedagogy particularly in the hard sciences and demonstrate its practical value to dismantle the colonial education system d Dismantle the Western power structure at the level of higher education and research The immediate action items relate to c and d An experiment is being carried out to test a new pedagogy of the calculus 5 day course on calculus without limits based on a new history and philosophy of mathematics which enables the calculus to be taught very easily with the help of computers even to non math students The calculus is at the base of hard science It is planned to start a new society and web journal for Non Western History and Philosophy of Science NOWHAPS which will not permit reliance on secondary Western sources so that authors will have to assume that all such material is doubtful and untrustworthy **Decolonising the University: The Emerging Quest for Non-Eurocentric Paradigms (Penerbit USM)** Claude Alvares, Shad Saleem Faruqi, 2014-11-25 This book of essays is a sequel to the International Conference on Decolonising Our Universities held in Penang Malaysia from June 27 to 29 2011 The Conference was jointly organised by the Universiti Sains Malaysia and Citizens International in cooperation with the Higher Education Leadership Academy of the Malaysian Ministry of Higher Education At the Conference speaker after speaker pointed out that education in Asia and Africa is too Westcentric It blindly apes European universities European curricula and European paradigms The papers in this volume examine possible ways of overcoming this problem of intellectual enslavement in Asian and African citadels of learning It must be pointed out at the very outset that this book is not meant to be a tirade against the West Its aim is not to ask Asian and African universities to shut out Europe and North America or to be insular or to wear blinds Its aim is positive to make Asian and African tertiary education truly global and at the same time socially relevant This cannot be done unless the intellectual monopoly of the West is broken and European knowledge is made to make way for the review teaching and expansion of the vast knowledge of other societies and cultures European knowledge may supplement but never replace other valid knowledge systems and traditions The book is divided into eight parts Part I creates the setting provides an overview of the state of our universities reflects on decolonisation of our intellectual heritage and explains how colonial education was used to assault our cultures Part II contains a wish list of the decolonised university There are essays on the philosophical basis of an African university and about how the sacred and

the secular can be integrated and how the community can be brought back into the university Part III critically examines the promise and performance of UNESCO in decolonisation of Asian and African institutions of higher learning Part IV discusses eurocentrism in social sciences in mathematics and in science curricula Part V highlights the state of social sciences and the law today and provides an alternative discourse in social theory history psychotherapy psychology law and language education Part VI discusses regional decolonising initiatives in the Philippines Taiwan Turkey and Iran Part VII provides insights into some experiments in transforming academic pedagogy Finally Part VIII contains some personal journeys in decolonisation of the self This book of essays is meant to coincide with Malaysia's Independence Day on August 31 1957 The hope is that the timing will underline the point that the stains of cultural and intellectual imperialism do not end with the attainment of political freedom Freedom is a state of the mind and regrettably throughout Asia and Africa the enslavement of the mind has continued long after the coloniser has gone back home This humiliating state of affairs must end not only to give meaning to political independence but also to improve the quality of our education by giving to our students a better panorama of world knowledge and thereby to increase their choices Decolonisation of our universities is not an exercise in flag waving nationalism Its aim is ameliorative Diversity and pluralism of knowledge systems are vital for meeting many of the moral social and economic challenges of the times and for avoiding the frightening economic educational and cultural consequences of Europe's near total intellectual and educational monopoly over Asia Africa and Latin America For example Western models of development have proved to be a nightmare and have not served Asia and Africa well Economic theories from the West have brought the whole world to the brink of an environmental catastrophe Asian universities should offer a critique of the ethnocentrism of Western scholarship by pointing out that a middle class Western lifestyle and what that entails in terms of the nuclear family the consumer society living in suburbia and extensive private space may neither be workable nor desirable on a fragile planet The humiliating story of intellectual enslavement in each field and in each region is best told in the words of the authors What must be noted is the ways in which this subservience manifests itself Our university courses reflect the false belief that Western knowledge is the sum total of all human knowledge The books prescribed and the icons and godfathers of knowledge are overwhelmingly from the North Atlantic countries Titles written by scholars and thinkers from Asia and Africa are rarely included in the book list This may indicate a pervasive inferiority complex or ignorance of the contribution of the East to world civilisation Any evaluation of right and wrong of justice and fairness of poverty and development and of what is wholesome and worthy of celebration tends to be based on Western perceptions Eastern ideas and institutions are viewed through Western prisms and invariably regarded as primitive and in need of change Despite decades of political independence the framework assumptions of our law politics economics education history science art and culture remain dictated by our former colonial masters Our concept of the good life and our views on human rights have very tenuous links to our indigenous traditions Our cultural values domestic relations music food

and dressing indeed our whole Weltanschauung is constructed on a Western edifice of knowledge Our concept of beauty has been socially constructed by Hollywood media In our professions most of the icons we look up to are Western In our universities the syllabi we draft the books we prescribe the theories we blindly ape the new abodes of the sacred we worship have very little connection with our own intellectual and moral heritage It is fashionable in Asian universities to import expatriate lecturers external examiners and guest speakers exclusively from North Atlantic countries Asian scholars are generally not regarded as fit for such recognition The underlying assumption is that Asians and Africans matter little and in all aspects of existence we need civilisational guidance from the overlords of humankind in Europe and America How did we fall into such depths of enslavement and reverse racism An essay in the volume points out that the colonisers conquered our mind by dismissing and deriding our cultures alienating us from our roots and putting us in awe of the culture of the masters They used the colonial education system for the production of a competent but submissive class They replaced local languages with the English language extinguishing along with local languages the cultural and moral nuances and perspectives that surround a language The colonisers falsified and obliterated historical records of intellectual achievements by Asian and African scholars and inventors They borrowed extensively from the East but shamelessly failed to acknowledge that debt In many cases they Latinised Eastern names to make them sound European The world does not know that during the European Dark Ages scintillating educational developments were taking place in Asia and Africa While Europe slept China India Persia and Egypt practised science invented algebra furthered mathematics metallurgy law and logic They conducted complex medical operations invented rockets wrote treatises in philosophy sociology and astronomy A more recent form of Western hegemony is the yearly university ranking lists Western education Western science and Western achievements are subjected to evaluation on criteria that are rigged in their favour A host of Western consultants and experts unabashedly glorify American and European achievements and certify and celebrate the unique quality of their education system A recent claim was made that American society symbolised the end of history implying thereby that no further human progress was necessary anywhere else The book's ultimate aim is to discover what needs to be done to liberate our minds and our souls to end this academic colonialism to restore our dignity and independence We must shed the slavish mentality of blindly aping Western paradigms We must stop sucking up to the Western academic system We need to send Columbus packing back home Not only the Columbus outside but also the Columbus within We need to rediscover the suppressed knowledge of our civilisations and to reconnect with our rich heritage We must embark on a voyage of discovery of our ancestors intellectual wanderings and rediscover the wonders and heritage of China India Persia Mesopotamia Egypt and other Eastern and African civilisations We must combat the many fabrications and plagiarisms of Western innovators and we must give credit where credit is due to those in Asia and Africa who pioneered the ideas It must be clarified that it is not part of our agenda to ask European and American universities to include the treasures of the East in their syllabi Whether their

world views should be enriched by the insights and reflections of the East or whether they should remain insular and wear blinds is their own problem Further it is not our aim to shut out the West but to end blind and exclusive reliance on it We need to root our education in our own soil to tap our own intellectual resources first and to make our education relevant to our societal conditions No amount of imported academics or theories can do this only us We are aware that our endeavour will be mocked by many in the West We will also be opposed by many elites in the East who believe that West is best and whose capitulation to Europe perpetuates Western intellectual hegemony Such opposition to the basic thesis of this book will only serve to confirm the phenomenon of legitimation and false consciousness whereby the oppressed are so brainwashed that they cooperate with their oppressors It is the final triumph of a system of domination when the dominated start singing its virtues In preparing this volume we received invaluable help from many individuals and institutions Universiti Sains Malaysia and Citizens International provided the funds for publication Ayesha Bilimoria helped with the editing of the bulk of the pieces Jenessey Dias performed brisk transcription of the presentations from the DVDs Shafeeq Sameera and Noor Aini Masri gave secretarial assistance Professor Dato Dr Md Salleh Yaapar and his team from the USM Press did everything else with great courtesy speed and professionalism Citizens International s S M Mohamed Idris and Uma Ramaswamy assisted with the printing To all of them we owe a debt of gratitude We hope that this book will highlight what is on any measure a shameful condition and that it will inspire at least some Asian educators to think afresh to chart new directions to search for the best in their indigenous traditions yet to keep the windows of their mind open to the world

Journal of Indian Council of Philosophical Research ,2001 **Hierarchical Methods** V. Kulish,2006-04-11 The book consists of two Volumes The first the preceding volume is devoted to the general nonlinear theory of the hierarchical dynamic oscillative wave systems This theory has been called the theory of hierarchical oscillations and waves Here two aspects of the proposed theory are discussed The first aspects concern the fundamental nature and the basic concepts and ideas of a new hierarchical approach to studying hierarchical dynamic systems A new hierarchical paradigm is proposed as a basis of a new point of view of such types of systems In turn a set of hierarchical principles is formulated as the fundamental basis of this paradigm Therein the self resemblance holographic principle plays a key role here An adequate mathematical description factorization of the proposed paradigm is carried out The concepts of structural and dynamic functional operators are put into the basis of this description Electrodynamics is chosen as a convenient basis for an obvious demonstration of some key points of the proposed new theory The second aspect has a purely mathematical nature It is related to the form of factorization i.e mathematical description of hierarchical types of dynamic models and discussion of the methods of their mathematical analysis A set of the hierarchical asymptotic analytical numerical methods is given as an evidence of the practical effectiveness of the proposed version of hierarchical theory *Mathematics, Astronomy, and Biology in Indian Tradition* Debi Prasad Chattopadhyaya,1995 This Book Is A Critical Exercise In Rediscovering Recapturing And Reinterpreting The Heritage Of

India From A Contemporary Point Of View This Monograph Is A Collection Of Five Research Papers By Eminent Scholars In The Fields Of Philosophy Science History And Culture And The Like Any Other Truly Historical Project It Has An Any Other Truly Historical Project It Has An Implicit Futural Orientation American Book Publishing Record ,1995

Nonperturbative Quantum Field Theory and the Structure of Matter T. Borne,G. Lochak,H. Stumpf,2005-12-19 This book which presents a new view of quantum field theory may serve as a research monograph and an alternative textbook examining topics which are not usually treated in conventional works Audience This volume will appeal to researchers concerned with the foundation of the theory of matter and forces including gravitation It will also be interesting to those working with quantum field theoretic methods in various disciplines such as particle physics nuclear physics condensed matter physics and relativity Jacket *The Cumulative Book Index* ,1996 A world list of books in the English language

Physics, Uspekhi ,2002 At the Frontier of Spacetime Torsten Asselmeyer-Maluga,2016-04-28 In this book leading theorists present new contributions and reviews addressing longstanding challenges and ongoing progress in spacetime physics In the anniversary year of Einstein s General Theory of Relativity developed 100 years ago this collection reflects the subsequent and continuing fruitful development of spacetime theories The volume is published in honour of Carl Brans on the occasion of his 80th birthday Carl H Brans who also contributes personally is a creative and independent researcher and one of the founders of the scalar tensor theory also known as Jordan Brans Dicke theory In the present book much space is devoted to scalar tensor theories Since the beginning of the 1990s Brans has worked on new models of spacetime collectively known as exotic smoothness a field largely established by him In this Festschrift one finds an outstanding and unique collection of articles about exotic smoothness Also featured are Bell s inequality and Mach s principle Personal memories and historical aspects round off the collection **Forthcoming Books** Rose Arny,1995-02 **The Monthly Evening Sky Map** ,1926 **The Review of Popular Astronomy** ,1928 **Mathematical Reviews** ,2004 **The Theory of relativity in contemporary science** ,1949 *The Nation* ,1918 High Energy Physics Index ,1988 **The Chemical News and Journal of Physical Science** ,1882

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Time Towards A Consistent Theory Fundamental Theories Of Physics**

In a global inundated with monitors and the cacophony of immediate interaction, the profound energy and emotional resonance of verbal artistry often diminish in to obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, set within the musical pages of **Time Towards A Consistent Theory Fundamental Theories Of Physics**, a charming perform of fictional splendor that pulses with raw feelings, lies an unique journey waiting to be embarked upon. Written by a virtuoso wordsmith, this enchanting opus instructions visitors on an emotional odyssey, softly exposing the latent possible and profound affect embedded within the elaborate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is central subjects, dissect its charming writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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