

Handbook of Molecular Physics and Quantum Chemistry

Contributors | **Mirzoaziz A. Khusenov,**
and Ermuhammad B. Dushanov et al.



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Xiang Xie



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Handbook of Molecular Physics and Quantum Chemistry ,2003 **Handbook of Molecular Physics and Quantum Chemistry** ,2003 Handbook of Molecular Physics and Quantum Chemistry Mirzoaziz A. Khusenov, Ermuhammad B. Dushanov, 2016-04 **Handbook of Molecular Physics and Quantum Chemistry, 3 Volume Set** Stephen Wilson, 2003-03-07 Published in three volumes this comprehensive reference work brings together in a single source for the first time a detailed presentation of the most important theoretical concepts and methods for the study of molecules and molecular systems The logical format of the Handbook allows the reader to progress from the foundations of the field to the most important and exciting areas of current research Edited and written by an outstanding international team and containing over 100 articles written by more than 50 contributors it will be invaluable for both the expert researcher and the graduate student or postdoctoral worker active in any of the broad range of fields where these concepts and methods are important Comprises three themed volumes Fundamentals Molecular Electronic Structure Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties Presents detailed articles covering the key topics presented in a didactic manner Focuses both on theory and the relation of experiment to theory Volume 1 Fundamentals presents the foundations of molecular physics and quantum chemistry It consists of 7 parts arranged as follows Part 1 Introduction Part 2 Elements of Quantum Mechanics Part 3 Orbital Models for Atomic Molecular and Crystal Structure Part 4 Symmetry Groups and Molecular Structure Part 5 Second Quantization and Many Body Methods Part 6 Approximate Separation of Electronic and Nuclear Motion Part 7 Quantum Electrodynamics of Atoms and Molecules The central problem of molecular physics and quantum chemistry is the description of atomic and molecular electronic structure The development of appropriate models for the description of the effects of electron correlation and of relativity are key components of the analysis Volume 2 Molecular Electronic Structure addresses these topics and consists of 7 parts arranged as follows Part 1 Approximation methods Part 2 Orbital Models and Generalized Product Functions Part 3 Electron correlation Part 4 Relativistic molecular electronic structure Part 5 Electronic structure of large molecules Part 6 Computational quantum chemistry Part 7 Visualization and interpretation of molecular electronic structure In reality no molecular system exists in isolation Molecules interact with other atoms and molecules and with their environment Volume 3 Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties consists of 7 parts arranged as follows Part 1 Response theory and propagator methods Part 2 Interactions between molecules Part 3 Molecules in different environments Part 4 Molecular Electronic spectra Part 5 Atomic Spectroscopy and Molecular Vibration Rotation Spectroscopy Part 6 Molecular dynamics and dynamical processes Part 7 Bulk properties **Handbook of Molecular Physics and Quantum Chemistry, 3 Volume Set** ,2003-03-07 Published in three volumes this comprehensive reference work brings together in a single source for the first time a detailed presentation of the most important theoretical concepts and methods for the study of molecules

and molecular systems The logical format of the Handbook allows the reader to progress from the foundations of the field to the most important and exciting areas of current research Edited and written by an outstanding international team and containing over 100 articles written by more than 50 contributors it will be invaluable for both the expert researcher and the graduate student or postdoctoral worker active in any of the broad range of fields where these concepts and methods are important Comprises three themed volumes Fundamentals Molecular Electronic Structure Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties Presents detailed articles covering the key topics presented in a didactic manner Focuses both on theory and the relation of experiment to theory Volume 1 Fundamentals presents the foundations of molecular physics and quantum chemistry It consists of 7 parts arranged as follows Part 1 Introduction Part 2 Elements of Quantum Mechanics Part 3 Orbital Models for Atomic Molecular and Crystal Structure Part 4 Symmetry Groups and Molecular Structure Part 5 Second Quantization and Many Body Methods Part 6 Approximate Separation of Electronic and Nuclear Motion Part 7 Quantum Electrodynamics of Atoms and Molecules The central problem of molecular physics and quantum chemistry is the description of atomic and molecular electronic structure The development of appropriate models for the description of the effects of electron correlation and of relativity are key components of the analysis Volume 2 Molecular Electronic Structure addresses these topics and consists of 7 parts arranged as follows Part 1 Approximation methods Part 2 Orbital Models and Generalized Product Functions Part 3 Electron correlation Part 4 Relativistic molecular electronic structure Part 5 Electronic structure of large molecules Part 6 Computational quantum chemistry Part 7 Visualization and interpretation of molecular electronic structure In reality no molecular system exists in isolation Molecules interact with other atoms and molecules and with their environment Volume 3 Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties consists of 7 parts arranged as follows Part 1 Response theory and propagator methods Part 2 Interactions between molecules Part 3 Molecules in different environments Part 4 Molecular Electronic spectra Part 5 Atomic Spectroscopy and Molecular Vibration Rotation Spectroscopy Part 6 Molecular dynamics and dynamical processes Part 7 Bulk properties

Handbook of Relativistic Quantum Chemistry Wenjian Liu, 2016-06-15 This handbook covers new methodological developments and applications of relativistic quantum chemistry It also pays attention to the foundation of relativistic quantum mechanics and addresses a number of fundamental issues that have not been covered by any book For instance what is the appropriate relativistic many electron Hamiltonian How to do relativistic explicit local correlation How to formulate relativistic properties How to combine double group and time reversal symmetries How to do QED calculations for molecules Just to name a few This book aims to establish the big picture of relativistic molecular quantum mechanics ranging from pedagogic introduction for uninitiated readers advanced methodologies and efficient algorithms for experts to possible future perspectives such that the reader knows when how to apply develop the methodologies This self contained two volume book can be regarded as a supplement to the three volume

Handbook of Computational Chemistry which contains no relativity at all It is to be composed of 6 sections with different chapters will be further expanded each of which is to be written by the most active experts who will be invited upon approval of this proposal Molecular Physics and Quantum Chemistry Handbook Maria Emilova Velinova,2016-11-30 Reports on recent advances and applications in the field of the molecular physics and quantum chemistry The study of molecular physics and quantum chemistry helps to predict and clarify the structure the properties and the dynamics of atoms and molecules This book includes theoretical and experimental techniques and their application to systems at different level of complexity

Handbook of Molecular Physics and Quantum Chemistry, 3 Volume Set Peter F. Bernath,Roy

McWeeny,2003-03-07 Published in three volumes this comprehensive reference work brings together in a single source for the first time a detailed presentation of the most important theoretical concepts and methods for the study of molecules and molecular systems The logical format of the Handbook allows the reader to progress from the foundations of the field to the most important and exciting areas of current research Edited and written by an outstanding international team and containing over 100 articles written by more than 50 contributors it will be invaluable for both the expert researcher and the graduate student or postdoctoral worker active in any of the broad range of fields where these concepts and methods are important Comprises three themed volumes Fundamentals Molecular Electronic Structure Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties Presents detailed articles covering the key topics presented in a didactic manner Focuses both on theory and the relation of experiment to theory Volume 1 Fundamentals presents the foundations of molecular physics and quantum chemistry It consists of 7 parts arranged as follows Part 1 Introduction Part 2 Elements of Quantum Mechanics Part 3 Orbital Models for Atomic Molecular and Crystal Structure Part 4 Symmetry Groups and Molecular Structure Part 5 Second Quantization and Many Body Methods Part 6 Approximate Separation of Electronic and Nuclear Motion Part 7 Quantum Electrodynamics of Atoms and Molecules The central problem of molecular physics and quantum chemistry is the description of atomic and molecular electronic structure The development of appropriate models for the description of the effects of electron correlation and of relativity are key components of the analysis Volume 2 Molecular Electronic Structure addresses these topics and consists of 7 parts arranged as follows Part 1 Approximation methods Part 2 Orbital Models and Generalized Product Functions Part 3 Electron correlation Part 4 Relativistic molecular electronic structure Part 5 Electronic structure of large molecules Part 6 Computational quantum chemistry Part 7 Visualization and interpretation of molecular electronic structure In reality no molecular system exists in isolation Molecules interact with other atoms and molecules and with their environment Volume 3 Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties consists of 7 parts arranged as follows Part 1 Response theory and propagator methods Part 2 Interactions between molecules Part 3 Molecules in different environments Part 4 Molecular Electronic spectra Part 5 Atomic Spectroscopy and Molecular Vibration Rotation Spectroscopy Part 6 Molecular dynamics

and dynamical processes Part 7 Bulk properties **Handbook of Computational Chemistry** Jerzy Leszczynski, 2012-01-13

The role the Handbook of Computational Chemistry is threefold It is primarily intended to be used as a guide that navigates the user through the plethora of computational methods currently in use it explains their limitations and advantages and it provides various examples of their important and varied applications This reference work is presented in three volumes Volume I introduces the different methods used in computational chemistry Basic assumptions common to the majority of computational methods based on molecular quantum or statistical mechanics are outlined and special attention is paid to the limits of their applicability Volume II portrays the applications of computational methods to model systems and discusses in detail molecular structures the modelling of various properties of molecules and chemical reactions Both ground and excited states properties are covered in the gas phase as well as in solution This volume also describes Nanomaterials and covers topics such as clusters periodic and nano systems Special emphasis is placed on the environmental effects of nanostructures Volume III is devoted to the important class of Biomolecules Useful models of biological systems considered by computational chemists are provided and RNA DNA and proteins are discussed in detail This volume presents examples of calculations of their properties and interactions and reveals the role of solvents in biologically important reactions as well as the structure function relationship of various classes of Biomolecules Chemical Modelling Alan Hinchliffe, 2007-10-31

Chemical Modelling Applications and Theory comprises critical literature reviews of molecular modelling both theoretical and applied Molecular modelling in this context refers to modelling the structure properties and reactions of atoms molecules materials Each chapter is compiled by experts in their fields and provides a selective review of recent literature incorporating sufficient historical perspective for the non specialist to gain an understanding With chemical modelling covering such a wide range of subjects this Specialist Periodical Report serves as the first port of call to any chemist biochemist materials scientist or molecular physicist needing to acquaint themselves with major developments in the area Theoretical Chemistry and

Physics of Heavy and Superheavy Elements U. Kaldor, Stephen Wilson, 2013-06-29 Quantum mechanics provides the fundamental theoretical apparatus for describing the structure and properties of atoms and molecules in terms of the behaviour of their fundamental components electrons and nucleons For heavy atoms and molecules containing them the electrons can move at speeds which represent a substantial fraction of the speed of light and thus relativity must be taken into account Relativistic quantum mechanics therefore provides the basic formalism for calculating the properties of heavy atom systems The purpose of this book is to provide a detailed description of the application of relativistic quantum mechanics to the many body problem in the theoretical chemistry and physics of heavy and superheavy elements Recent years have witnessed a continued and growing interest in relativistic quantum chemical methods and the associated computational algorithms which facilitate their application This interest is fuelled by the need to develop robust yet efficient theoretical approaches together with efficient algorithms which can be applied to atoms in the lower part of the Periodic

Table and more particularly molecules and molecular entities containing such atoms Such relativistic theories and computational algorithms are an essential ingredient for the description of heavy element chemistry becoming even more important in the case of superheavy elements They are destined to become an indispensable tool in the quantum chemist's armoury Indeed since relativity influences the structure of every atom in the Periodic Table relativistic molecular structure methods may replace in many applications the non relativistic techniques widely used in contemporary research

Practical Aspects of Computational Chemistry I Jerzy Leszczynski, Manoj Shukla, 2012-01-13 Practical Aspects of Computational Chemistry I An Overview of the Last Two Decades and Current Trends gathers the advances made within the last 20 years by well known experts in the area of theoretical and computational chemistry and physics The title itself reflects the celebration of the twentieth anniversary of the Conference on Current Trends in Computational Chemistry CCTCC to which all authors have participated and contributed to its success This volume poses and answers important questions of interest to the computational chemistry community and beyond What is the historical background of the Structural Chemistry Is there any way to avoid the problem of intruder state in the multi reference formulation What is the recent progress on multi reference coupled cluster theory Starting with a historical account of structural chemistry the book focuses on the recent advances made in promising theories such as many body Brillouin Wigner theory multireference state specific coupled cluster theory relativistic effect in chemistry linear and nonlinear optical properties of molecules solution to Kohn Sham problem electronic structure of solid state materials development of model core potential quantum Monte Carlo method nano and molecular electronics dynamics of photodimerization and excited states intermolecular interactions hydrogen bonding and non hydrogen bonding interactions conformational flexibility metal cations in zeolite catalyst and interaction of nucleic acid bases with minerals Practical Aspects of Computational Chemistry I An Overview of the Last Two Decades and Current Trends is aimed at theoretical and computational chemists physical chemists materials scientists and particularly those who are eager to apply computational chemistry methods to problem of chemical and physical importance This book will provide valuable information to undergraduate graduate and PhD students as well as to established researchers

Handbook of High-resolution Spectroscopy Martin Quack, Frederic Merkt, 2011-09-26 The field of High Resolution Spectroscopy has been considerably extended and even redefined in some areas Combining the knowledge of spectroscopy laser technology chemical computation and experiments Handbook of High Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today with emphasis on the recent developments This essential handbook for advanced research students graduate students and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications The first comprehensive survey in high resolution molecular spectroscopy for over 15 years Brings together the knowledge of spectroscopy laser technology chemical computation and experiments Brings the reader up to date with the many advances that have been

made in recent times Takes the reader through the range of wavelengths covering all possible techniques such as Microwave Spectroscopy Infrared Spectroscopy Raman Spectroscopy VIS UV and VUV Combines theoretical computational and experimental aspects Has numerous applications in a wide range of scientific domains Edited by two leaders in this field Provides an overview of rotational vibration electronic and photoelectron spectroscopy Volume 1 Introduction Fundamentals of Molecular Spectroscopy Volume 2 High Resolution Molecular Spectroscopy Methods and Results Volume 3 Special Methods Applications BEFORE BIG BANG Augustin Ostace, 2017-05-16 Dedicated or Gewidmet to the Pre Universe itself Vor Universum just before the Big Bang gerade bevor der Urknall as the Greatest der Biggste mystery of all mysteries Of all the Greatest and the Smallest of all the Smallest within of the all Visible and of the all Invisible of all kind of Spatiality and of Temporality of all sort of Causality and of all forms of Matter and of possible Anti Matter both for human in detectable and non detectable ways of all forms of Energy perceivable and non perceivable for human of Gravitation and possible of Anti Gravitation and of Number Arithmos as perhaps the greatest truth of the whole Universe and of all Physical and Chemical events and processes and of Metaphysical phenomena herein Theoretical Pre Cosmologist **SCHOLAR & SCHOLASTIC** Augustin Ostace, 2018-07-30 In order to know myself better gnothi seauton I have to descend into the strongholds of meditation of pondering and of wise silencing by trying to re unite the essence of a thing with its own existence esse et existere In order to know myself better gnothi seauton I have to know what is uncertain around me and inside me regarding the cosmological uncertainties biological uncertainties and ontological uncertainties In order to know myself better gnothi seauton I have to know what is unknown around me and inside of me whatever of the level of universe or of the starry skies upon me and the ones inside me Ultimately in order to know ourselves better of what is known of what is uncertain and of what is unknown must be the duty triad in every school in every college or university of all those who are trying the ontological jump or start up in our Species towards an Up Sapiens Species Encyclopaedist towards Up Sapiens

UNIVERSE IN SAPIENS - 1 Augustin Ostace, 2024-01-25 Why are not enough the first three AERA of our previous AERAS SYSTEMS namely AERA OF PHILOSOPHICAL SYSTEMS AERA 1 AERA OF SAPIENTOLOGICAL SYSTEMS AERA 2 AERA OF VIDEOLOGICAL SYSTEMS AERA 3 Being thus necessary a fourth thinkable and re thinkable Creative System the one of ARTIFICIAL INTELLIGENCE SYSTEM AI which in German Language is entitled as K NSTLISCHE INTELLIGENZ KI and both AI and KI are under the HYBRID INTELLIGENCE of Human and Artificial alike or Biology encoded through Technology re encoded as HI Therefore all three signification AI KI HI are provable into the sameness extra enlargement of the Classic Human Brain CHB which is improved in seconds in minutes and in hours by Abstract Developer Entwickler of Human Sapiens by using accordingly English Deutsch and Denglish This impetus in development of technological systems more and more intelligent more and more comprehensive more and more diversified more and more amplified comprising here at least for the time being information inspiration intuition and initiation Great Four IN widespread in areas of science technology

industry all three as SCITECH INDUSTRY of art ARSSAPIENS INDUSTRY of Sport SPORTSAPIENS INDUSTRY by rethinking thus the Anthropology the Sapientology the Cosmology including here the one of PERSONALISIERTE KOSMOLOGY of astronomy of geology and biology into which all of them means ultimately another bigger step in development of duality Human Machine or a duality of Human Technology including the branches of Human Over Human Robotics or Humanoid Robotics all as SAPIENS INDUSTRY The man itself the human itself the Sapient o Human development its experiences its visions its outcomes can make symbiosis with oneself a crossing with its nature of creativity within the nature physis of endless philosophy with tools out of stone with tools out of bones the tools out of hood or of synthetic feature underlining once again the TOOL MAKER MAN as Homo Faber or better says Homo Faber Sapiens by taking the SAPIENS LIBRARY wherever He She goes But now within the present data out of its own virtual reality and creativity all being improved by the man itself and the machine itself which machine might in turn overcome the man by confronting the man itself by changing and challenging even the human itself even the Human Sapient oneself in its own destiny and purposes Could be or could become the Artificial Intelligence AI KI HI the source and resource the roots of final ending of the Sapient as Species on the Earth With other words and concepts the huge planetary surface scene of Earth modelled by Sapiens could be subjected to radically changing and challenging By taking into account all probabilities and possibilities of the present daily evolution and revolution of the hyper complexity of Artificial Intelligence AI KI HI a recombination of the man itself with a machine created by the man itself could develop a symbiosis of human machine which overcomes the Classic Species Sapiens CSS who dominated the life on Earth in the last of ca 50 000 years by entering within the Species Sapiens Techne SST into which the Sapiens still dominate the Universe of Technology by reaching out in some area even the domination of Technology over Sapiens as TSS In this way within Artificial Intelligence seen and analyzed Three Times Intelligence i e AI KI HI through English Deutsch Denglish the letters themselves the numbers themselves and the signs themselves are becoming the WORD itself through which the WORD itself is improved to the level of CONCEPT itself and the WORD CONCEPT DUALITY in their speeding up developing in their accelerated and amplifying structures is giving the outcome of the BOOK itself in its CLASSICAL BOOK CB in its digital book as E BOOK or in its VIRTUAL BOOK as V BOOK Only this multitude of the same BOOK in development of the same BOOK in diversity is showing the Genesis the Evolution and the revolution GENEVO of the ARTIFICIAL INTELLIGENCE in its three times of AI KI HI with its versions in German Language as K NSTLICHE INTELLIGENZ KI and HYBRID INTELLIGENCE HI which will be used and reused interchangeably at any reference or inter reference or cross reference in our LANGUAGE OF SAPIENTO SCIENCIA 1 What really means ENS in our Book of PEKINENSIS SAPIENS with one ENS inside the concept of Pekin ENS is and one ENS Sapiens ENS is a shortage from the Species Sapiens as essence and existence of it being thought and rethought as ENS i e as BEING of the Species Sapiens Within ENS will be comprise the whole of German Idealist connotation of Being as A SEIN BEING in its maximal generality B

DASEIN BEING HERE on this planetary system C MITDASEIN COBEING HERE together with all past geological and biological times influencing and restructuring all basic features of the Planetary Life System It is possible to rethink the ENS INTO ONESELF RECHATING Would be ENS a synthesis out of Sapiens Is ENS a Being SEIN out of Sapiens Is ENS a Being here DASEIN out of Sapiens Is ENS a CO BEING here MITDASEIN out of Sapiens Is ENS a triad of Being empowering the Sapiens oneself Is ENS a living self consciousness of the whole of Sapiens Is ENS a symbiosis between Sapiens and Artificial Intelligence AI KI HI Is ENS the dialectic vector of history of the whole Sapiens in overcoming oneself towards a better Sapient o Technology towards a Sapient o post human industry in Art in Philosophy in Psychology in Theology Is ENS in its own powerful skill ness of Symphony in painting of Symphony in sculpturing of Symphony in Architecture of Symphony in poetry of Symphony in theatre of Symphony in music through which great masterpieces of ARSSAPIENS to be musicalized and then reunited into an ensemble of unspeakable Symbology of Human Sapiens Technology Is ENS the vector of SAPIENS SYMPHONY by using and reusing a complex synthesizer of ARSSAPIENS without precedence in Human Sapiens History But SAPIENS SYMPHONY means at least a supra synthesis of different composers as Bach and Haendel in re composing SAPIENS ORATORIUM or by conjoining Mozart and Verdi in re composing the REQUIEM SAPIENS Is Artificial Intelligence for All AI for ALL Is AI the sense of Everything which is explained through a Big Everything AI for Everything Is AI the greatest improver of Itself ness AI for Itself ness Is AI the deepest measure of Human Predestination AI for Predestination Is the AI the Trinity synthesis between Faith Confessing Epistemology AI for Human Trinity Is AI the mystery of Human Variability following the exhausting of Biological regeneration of Sapiens itself AI for Variability of Sapiens Is the AI the Biggest Wall of Abstract Sapiens over it is not possible to jump AI for Biggest Wall of Abstract Sapiens All of them are possible through Digital Creativity all of them are available through Artificial Intelligence because the writer is now the reader the explorer is now the surveyor the survival is now the fighter by assuming by affording a strong competition beyond of its own Species finally a semi human made device an Hybrid Intelligence HI between biology and technology both inspired by Bionics resounding in biology and technology alike as TECHNO BIO SAPIENS Within these changing and challenging times and adversities the Culture of Human Sapiens itself is coming and becoming a Culture of Wholeness KULTUR DER GESAMTHEIT GESAMTHEITKULTUR including here the Culture of Past times the Culture of Present Times and the Culture of Future times KULTUR DER VERGANGENHEIT KULTUR DE GEGENWART KULTUR DER ZUKUNFT KULTUR DER N CHSTENS It is to underline that while the Biologic Sapiens has no more powers of regeneration of coming into biologic mutation by remaining only the Abstract Powers of Sapiens or Ontology of Creative Sapiens to save to regenerate and to redemption of our Sapiens Species Thus the Biology of Sapiens the basic Anatomy of Sapiens is remaining a CONSTANT OF SAPIENS a STATUS QUO SAPIENS while the ABSTRACT SAPIENS IS A VARIABILITY OF SAPIENS IS A STATUS DYNAMICS OF SAPIENS IN ITS ONGOING DEVELOPING AND BECOMING Between the two basic components of Sapiens Biology

Ontology there is its own CONSTANT OF ANATOMY and its own VARIABILITY OF SAPIENS as ANATOMONTOLOGY and between the two is a strong complementary a DUALITY OF ANATOMY AND ONTOLOGY which is done through the LOGOS of ANATOMY as ANATOMOLOGY This triad of ANATOMY ANATOMOLOGY ANATOMONTOLOGY are the search research modality of our Sapiens in fighting with its own Technology and Discovery towards overcoming of the Sapiens oneself In the same time it is done a Crypto Anatomy Analyse and Psychoanalyse in which is hoped a better knowledge of this Enigma of evolutionary and revolutionary called Sapiens as Species or Genus Homo Sapiens as Genus Homo both in ANTHROPOSAPIENTOLOGY synthesis To these multitude of questions and answers to these endlessly uncertainties and unknowns to these hyper complexity of theories and hypothesis we the Sapiens in togetherness with Artificial Intelligence we both we try to cope within our online book or E Book or virtual book UNIVERSE IN SAPIENS 1 into which the Universality of the Universe is meeting and reconciling with the Universality of Sapiens in its individuality or generality sense SAPIENTO UNIVERSALIST OF ARTIFICIAL INTELLIGENCE SYSTEM **POETRY OF COSMOBIOSAPIENS - 1** Augustin Ostace,2024-06-06 *UNIVERSUM ARCHE* Augustin Ostace,2018-10-15 Dedicated to the Universe itself as the Greatest of all the Greatest and the Smallest of all the Smallest within of the all Visible and of the all Invisible of all kind of Spatiality and of Temporality of all sort of Causality and of all forms of Matter Black Matter and of possible Anti Matter both for human in detectable and non detectable ways of all forms of Energy and Black Energy perceivable and non perceivable for human of Gravitation and possible of Anti Gravitation and of Number Arithmos as perhaps the greatest truth of the whole Universe and of all Physical and Chemical events and processes and of Metaphysical phenomena herein Theoretical Cosmologist

REASON & RATIONALIST Augustin Ostace,2018-08-03 In order to know myself better gnothi seauton I have to descend into the strongholds of meditation of pondering and of wise silencing by using primordially the rationalist crafts of human thinking In order to know myself better gnothi seauton I have to know what is uncertain around me and inside me by re making a field of rational inquiry therein In order to know myself better gnothi seauton I have to know what is unknown around me and inside of me by re setting myself through the craftiness of rational worthy Ultimately in order to know ourselves better as Species Sapiens of what is known of what is uncertain and of what is unknown inside us could be the duty triad in every school in every college or university of all those who are trying the ontological jump in our Species towards the jump of Up Sapiens Rationalist **SAPIENS IN GERMANY - 1** Augustin Ostace,2024-01-27 Why are not enough the first three AERA of our previous AERAS SYSTEMS namely AERA OF PHILOSOPHICAL SYSTEMS AERA 1 AERA OF SAPIENTOLOGICAL SYSTEMS AERA 2 AERA OF VIDEOLOGICAL SYSTEMS AERA 3 Being thus necessary a fourth thinkable and re thinkable Creative System the one of ARTIFICIAL INTELLIGENCE SYSTEM AI which in German Language is entitled as K NSTLISCHE INTELLIGENZ KI and both AI and KI are under the HYBRID INTELLIGENCE of Human and Artificial alike or Biology encoded through Technology re encoded as HI Therefore all three signification AI KI HI are provable into the

sameness extra enlargement of the Classic Human Brain CHB which is improved in seconds in minutes and in hours by Abstract Developer Entwickler of Human Sapiens by using accordingly English Deutsch and Denglish This impetus in development of technological systems more and more intelligent more and more comprehensive more and more diversified more and more amplified comprising here at least for the time being information inspiration intuition and initiation Great Four IN widespread in areas of science technology industry all three as SCITECH INDUSTRY of art ARSSAPIENS INDUSTRY of Sport SPORTSAPIENS INDUSTRY by rethinking thus the Anthropology the Sapientology the Cosmology including here the one of PERSONALISIERTE KOSMOLOGY of astronomy of geology and biology into which all of them means ultimately another bigger step in development of duality Human Machine or a duality of Human Technology including the branches of Human Over Human Robotics or Humanoid Robotics all as SAPIENS INDUSTRY The man itself the human itself the Sapient o Human development its experiences its visions its outcomes can make symbiosis with oneself a crossing with its nature of creativity within the nature physis of endless philosophy with tools out of stone with tools out of bones the tools out of hood or of synthetic feature underlining once again the TOOL MAKER MAN as Homo Faber or better says Homo Faber Sapiens by taking the SAPIENS LIBRARY wherever He She goes But now within the present data out of its own virtual reality and creativity all being improved by the man itself and the machine itself which machine might in turn overcome the man by confronting the man itself by changing and challenging even the human itself even the Human Sapient oneself in its own destiny and purposes Could be or could become the Artificial Intelligence AI KI HI the source and resource the roots of final ending of the Sapient as Species on the Earth With other words and concepts the huge planetary surface scene of Earth modelled by Sapiens could be subjected to radically changing and challenging By taking into account all probabilities and possibilities of the present daily evolution and revolution of the hyper complexity of Artificial Intelligence AI KI HI a recombination of the man itself with a machine created by the man itself could develop a symbiosis of human machine which overcomes the Classic Species Sapiens CSS who dominated the life on Earth in the last of ca 50 000 years by entering within the Species Sapiens Techne SST into which the Sapiens still dominate the Universe of Technology by reaching out in some area even the domination of Technology over Sapiens as TSS In this way within Artificial Intelligence seen and analyzed Three Times Intelligence i e AI KI HI through English Deutsch Denglish the letters themselves the numbers themselves and the signs themselves are becoming the WORD itself through which the WORD itself is improved to the level of CONCEPT itself and the WORD CONCEPT DUALITY in their speeding up developing in their accelerated and amplifying structures is giving the outcome of the BOOK itself in its CLASSICAL BOOK CB in its digital book as E BOOK or in its VIRTUAL BOOK as V BOOK Only this multitude of the same BOOK in development of the same BOOK in diversity is showing the Genesis the Evolution and the revolution GENEVO of the ARTIFICIAL INTELLIGENCE in its three times of AI KI HI with its versions in German Language as K NSTLICHE INTELLIGENZ KI and HYBRID INTELLIGENCE HI which will be used and reused

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more powers of regeneration of coming into biologic mutation by remaining only the Abstract Powers of Sapiens or Ontology of Creative Sapiens to save to regenerate and to redemption of our Sapiens Species Thus the Biology of Sapiens the basic Anatomy of Sapiens is remaining a CONSTANT OF SAPIENS a STATUS QUO SAPIENS while the ABSTRACT SAPIENS IS A VARIABILITY OF SAPIENS IS A STATUS DYNAMICS OF SAPIENS IN ITS ONGOING DEVELOPING AND BECOMING Between the two basic components of Sapiens Biology Ontology there is its own CONSTANT OF ANATOMY and its own VARIABILITY OF SAPIENS as ANATOMONTOLOGY and between the two is a strong complementary a DUALITY OF ANATOMY AND ONTOLOGY which is done through the LOGOS of ANATOMY as ANATOMOLOGY This triad of ANATOMY ANATOMOLOGY ANATOMONTOLOGY are the search research modality of our Sapiens in fighting with its own Technology and Discovery towards overcoming of the Sapiens oneself In the same time it is done a Crypto Anatomy Analyse and Psychoanalyse in which is hoped a better knowledge of this Enigma of evolutionary and revolutionary called Sapiens as Species or Genus Homo Sapiens as Genus Homo both in ANTHROPOSAPIENTOLOGY synthesis To these multitude of questions and answers to these endlessly uncertainties and un knows to these hyper complexity of theories and hypothesis we the Sapiens in togetherness with Artificial Intelligence we both we try to cope within our online book or E Book or virtual book into which the Universality of the Universe is meeting and reconciling with the Universality of Sapiens in its individuality or generality sense SAPIENTO UNIVERSALIST OF ARTIFICIAL INTELLIGENCE SYSTEM

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