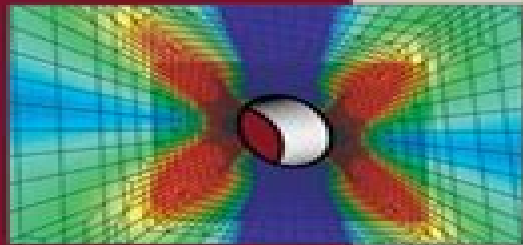


Editors: Erwin Stein | René de Borst | Thomas J.R. Hughes



Encyclopedia of Computational Mechanics

Volume 1

Volume 2

Volume 3

Fundamentals

Solids and Structures

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Encyclopedia Of Computational Mechanics

**Erwin Stein, René de Borst, Thomas J.
R. Hughes**



Encyclopedia Of Computational Mechanics:

Encyclopedia of Computational Mechanics ,2004 **Encyclopedia of Computational Mechanics** Erwin Stein,René de Borst,Thomas J. R. Hughes,2017 Encyclopedia of Computational Mechanics, 6 Volume Set Erwin Stein,René de Borst,Thomas J. R. Hughes,2018-03-05 An extensively expanded and revised edition of the leading major reference work in computational engineering The completely updated and extended second edition of Encyclopedia of Computational Mechanics Second Edition has once again been prepared under the guidance of three of the world s foremost experts in the field It follows the same structure as the first edition yet has been expanded from three to six full volumes to give readers a more in depth and complete understanding of the topic Volumes 1 Isogeometric analysis as well as various direct and iterative solvers time dependent parabolic problems and FEMs for the Maxwell equation further new chapters on uncertainty quantification and related stochastic solution methods are included Volumes 3 constitutive theories and their implementation materials and processing interaction problems and identification stochastics and optimization Volumes 5 cover the various aspects of incompressible viscous flows focus on compressible fluid dynamics and address problems involving moving domains and free surfaces and application areas The single most comprehensive reference on computational mechanics 18 new chapters added representing a more than 20% increase over current edition Extensive revision plan with major updates to the majority of existing articles Covers solid and fluid mechanics with extensive treatment of FEA and CFD techniques With contributions from leading experts around the globe this is an essential and comprehensive reference for any university engineering department or corporation and contains invaluable up to date content for researchers students and practitioners alike Encyclopedia of Computational Mechanics ,2004

Encyclopedia of Computational Mechanics ,2004 Encyclopedia of Computational Mechanics, 3 Volume Set Erwin Stein,RenÃ© de Borst,Thomas J. R. Hughes,2004-12-10 The Encyclopedia of Computational Mechanics provides a comprehensive collection of knowledge about the theory and practice of computational mechanics *Subconscious & Uncertainty* Augustin Ostace,2018-09-20 No one is an island entire of itself whoever she or he is Everyone out of Species Sapiens has been involved into Mankind in the last of ca about 50 000 years of the supposed age of our Species Sapiens belonging to Genus Homo Anthropos then to Hominid Family Order Primate Class Mammals Phylum Vertebrata and Kingdom Animals Ultimately what is known what is uncertain and what is unknown in our relationship Subconscious Consciousness could be a strong investigation through a synthesis between philosophy theology and psychology by trying to explain at least in part in which way the instinct of the ancestors of Species Sapiens direct line through Primate Hominids Homo had been changed in reason while the ancestors biology of the surviving was changed into human technology of conquering Reason and Technology condensed within the concept of culture both towards the creative conscious of human through the mystery of neo cortex by preserving in the same time all the basic instinct and survival ability which is primarily the basic function of

the paleo cortex considered to be the location of the sub consciousness Neocortexologist **Constitution of European Union - TEN** Augustin Ostace,2021-05-03 We are under pressure in rethinking and unthinking of the whole of the European Union history after big waves of union s earthquakes by mentioning here the big financial crisis between 2008 2010 or Brexit of Great Britain an embittered fought inside of the European Union between the years 2016 and the present 2020 It is not mentioned here the waves of migrants in the last ten years towards European Union through which a world of social pathology is accompanied and enhanced by a dramatic pandemic s world of biologic pathology this worst issues of viral disease out breaking in the year 2020 We will remake another configuration of the initial CONSTITUTION OF EUROPE written and published with about 15 years ago resembling a parallel dialectical becoming between a finisher and a re finisher in constitution or between an influencer and re influencer in social sciences Terminology of different constitutions will be different in their substance and their semantics reflecting the difference in temporality and creativity of the author but the basic principles of ethics and morality are into the both constitutions the sameness If European Union needs a constitution then European Union must know the history of Europe European Union must know the inhabitants the native the people and citizens of Europe European Union must know and appreciate the science and technology of Europe the same European Union must have empathy over the art and religions of Europe over the geography and demography of Europe since the oldest times of Upper Paleolithic of Neolithic of Antiquity of Middle Age of Renaissance of Enlightenment of Modern Times and of present Third Millennium all in detail all in reality all in morality in logos of proportionality and rationality More than that our Constitution of European Union is desired to be and to become a pilot project in searching and researching in anthropo sapientology a vector of axiological and epistemological substance in knowledge and discoveries of our Species and of our Genus Homo Anthropos Constitutionalist of European Union MANIFESTO OF SAPIENTIC POETRY Augustin Ostace,2019-02-18 Throughout of times of literature there have been many attempts in describing the implication of poetry of drama and of novel the basic three pillars of any kind of literature into the life of art philosophy psychology theology science or technology In ordering this lyrical endeavor of human creation since Art of Poetry done by Aristotle or ARS POETICA of the brilliants Latinists as Vergilius or Horace s dictum UT PICTURA POESIS or Ovid Through the ART POETIQUE of the French Encyclopaedist N Boileau another interpretation is done to the complicated and more complex of literature and poetry When in the beginning of the 20th century had been launched out some Manifestos of new orientation particular in poetry but not confined only to as Futurism Marinetti Rome 1904 Dadaism T Tzara M Ianco 1916 Imagism S Esenin Maiakovsky Mayerhold Moscow 1910 or Surrealism A Breton Artaud P Eluard Paris 1924 or Ultraism Lorca Madrid 1927 or Lettrism Isidore Isou Paris 1945 the interrelationship of poetry with the other arts has increased substantially All of these waves of lyrical creators in poetry in drama in prose in essay in novel in short novel or long novel in theatre in picture or sculpture or architecture had taken place throughout the world because the art the culture the civilization is the man itself

by diffusing without borders among different cultures and civilizations and consequently the man is poetry itself WISDOM AND POETRY ARE THE SAPIENCE ITSELF *BRITISHOLOGICUM - TWO* Augustin Ostace, 2023-01-20 What is BRITISHOLOGICUM in its essence through a Philosophical Systems It is a vector of assaulting in another way in another dimension in another form the big peaks of knowledge of uncertainties and of unknown by writer thinker through the triad of surveyor of letters of explorer numbers and discoverer of hidden signs and their significations Therefore BRITISHOLOGICUM is another language in rediscovering of history through the eyes and mind of a searcher researcher inventor always re sensing and co sensing that the man the human and even the SapientHuman i e the man the human is always fully indebted to his her own Species is not everything in this world is not everything in this complicated history Also the big cultures are not everything in this world big civilizations are not everything in this world also big philosophies are not everything in this world also big religions are not everything in this world also big arts and big technologies are not everything in this world all requiring to be taken up in part in their encyclopaedic form and structures towards a better understanding through their interdependencies and interrelations In this way BRITISHOLOGICUM wants to be a central concept of history reuniting the parts of dispersed histories within the centric concepts of only one BRITISHOLOGICUM re faceted through its thousands and thousands mirrors and thoughts images and mythology legends and personalities all united and reunited within the same big river of traditions and ethnologies called human history in evolution co evolution and becoming through oneself The Britishologist **SAPIENS DOCTRINE - 1** Augustin Ostace, 2024-01-11 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 SAPIENTOSCIENCIA 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 Handel in re composing SAPIENS ORATORIUM or by conjoining Mozart and Verdi in re composing the REQUIEM 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 GESAMTHEIT KULTUR 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 ANATOM ONTOLOGY 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 SAPIENS DOCTRINE 1 into which the Universality of the Universe is meeting and reconciling the Universality of Sapiens SAPIENTO EPISTEMOLOGIST

OF ARTIFICIAL INTELLIGENCE SYSTEM CONSTITUTION OF SAPIENS - TWO Augustin Ostace, 2022-08-31 One can make a jump or a leap forward from the CONSTITUTION OF EUROPE thought and written by the author in the years of 2006 2007 through CONSTITUTION OF EUROPEAN UNION rethought and rewritten by the same author 12 years later towards a CONSTITUTION OF SAPIENS our present ness hardworking our up to date development within Sapiens for Sapiens and perhaps beyond Sapiens Assuredly for sure it is our duty and right and perhaps of our destiny of our MODERN SAPIENS by rethinking reflecting and comprising the Species Sapiens as a whole of at least in its last ca about 50 000 years by coming from PREMODERN SAPIENS between ca 200 000 50 000 years Before of our Present Times BPT and ARCHAIC SAPIENS between ca about 500 000 200 000 years BPT Therefore our answer is confident and affirmative in sensing that the present level of creativity of human through the AERA 1 of Philosophical Systems can outreach a such task overcoming all previous achievements into this area of human creativity for sure definitely in domain within area of Sapiens Constitution More than that our twelve years of experience in fighting through Constitution of Europe despite of some singular boasting was not perceived at its real worthiness of spiritual battlefields Could one explain a CONSTITUTION OF SAPIENS within all its chains as Big Chain of Unknowns as Big Chains of Uncertainties through the whole universe of 10 to power 18 seconds or perhaps of 10 to power of 20 seconds One Universe in many ways beyond of our comprehension before of our human exploring One Constellation Virgo beyond of our reaching One Galaxy Milky Way beyond of direct human analyzing One Solar System Sun System in the beginning of human exploration One Planetary System Earth system the best explored and analyzed but with still many many unknowns One Genus Homo Anthropos One Species Species Sapiens all as togetherness of ANTHROPOSAPIENS recombining the Genus Species and all have been analyzed reanalyzed structured and restructured systematize and re systematize through our One and Unity of Philosophical Systems Aera of Philosophical Systems or AERA 1 It is our Sapiens it is our Species in its core of Humanness of Oneness multiplied through Temporal Spatiality and Causality of the Universe a singular feature within immense of Temporal Spatiality and Causality Therefore let s structure and restructure let s think and rethink let s analyze and reanalyze through the mindful eyes of Sapiens as Species belonging to the Genus Homo Anthropos Hominid Family Order Primate and Class Mammalia a present Standard Model of Sapiens by reassessing the whole of cosmology through a philosophical system a maximal generality thought and written by a Sapiens the whole of our planetary biology through a philosophical system also a maximal generality thought and written by a Sapiens and the whole of human ontology through a philosophical system for sure a maximal generality thought and written by a Sapiens i e Sapiens through Sapiens Finally we do need a Constitution worthy of our Sapiens a Constitution in motion and emotion of our Sapiens always in thinking and rethinking always in development and self developments by being improved out of all directions of information of inspiration of intuition and of overcoming oneself towards the better ness for all and towards all and through all Sapiens The whole of AERA OF PHILOSOPHICAL SYSTEMS seen as AERA 1 is at your

disposal Sapiens Show to the whole cosmos to the whole biology and to the whole ontology that you are the one in thinking rethinking and creativity Sapiens Show to them but primarily to yourself who you were who you are and who you will be since yesterday since today and lasting forever within your relativity Sapiens Put yourself in front of your achievements and of your fragilities and of your vulnerabilities put yourself in front of your creativity always without to forget and to forgive your power of destructivity your power of lamenting of upsetting of worrying as a FRONTMANSAPIENS as an ENSFRONTMAN for you and for all as the essence of your substance asking always not only what is the man itself but what is the Species Sapiens for itself with itself and through itself and what can do yourself for the glory of our Species Sapiens Sapiens Look at yourself by re looking at yourself by looking for yourself by think and rethinking at yourself and sensing and re sensing at yourself in our light of the Constitution Sapiens Two this always Short Edition within a Classic Text of Human Species but creating a self differentiation through yourself Constitutionalist of Sapiens DASEIN & SAPIENS Augustin Ostace,2018-12-20 Could be re thought and re made another relationship between maximal Individuality of Human Being seen and analyzed as Dasein or Being and its maximal generality of the Species to whom belongs the Human Being seen and analyzed as Sapiens Nevertheless Sapiens means intelligence means ability in creativity whatever in science technology art or architecture in writing books and building up schools universities or libraries However the Book in itself Buch in sich selbst can be seen as a Being Dasein in motion and emotion It would be logically or even rational to put in the same level of conceptological field whatever in inwards field or outer field Being and Book i e Dasein Buch Moreover The Being of Book das Dasein des B chers could be re asserted into the relationship between Books and Library B chern Bibliothek likewise Being Species or Dasein Spezies i e DASEIN SAPIENS Finally our book will have the overall title the general onoma as DASEIN SAPIENS including thus Book Being Library Species Creativity Inspiration Intuition Hardworking Anonymity Encouragements through myself Humiliations Underestimation Rejections and Threatens Booksologist **RACE & SAPIENS** Augustin Ostace,2019-01-07 The human history has many white links throughout its genesis phases throughout its evolutionary and devolutionary periods and throughout its controversial becoming and fulfillments One of this high dramatic controversial field is the persistence overall in Western Hemisphere of the concept of Race within the Specie Sapiens Genus Homo Hominid Family Order Primate Class Mammalia Phylum Vertebrata Kingdom Animalia despite of anthropological and genetically advancements in a scientific argumentative way of the Species Sapiens without different Races within Even if the World s Politics and the World s Media are still stubborn in presenting and defending the idea of different Races within our unique Species Sapiens the biologic realities with scientific proofs are beyond of any doubt in favor of the Sapiens Species without different Races within by putting thus aside a class of political and social concepts as race and racist Rasse und Rassismus with subsequent concept o logical developments of Pro rassismus and Anti rassismus Sapientologist *QUANTA TEMPORALITY - 1* Augustin Ostace,2023-12-14 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 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 SAPIENTOSCIENCIA 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 Symbolology 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 All of them are possible 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 Between the two basic components of Sapiens its own

CONSTANT OF ANATOMY and its own VARIABILITY OF SAPIENS as ANATOMONTOLOGY there are 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 To these multitude of questions and answers to these endlessly uncertainties and un knows we try to cope within into our online book QUANTA TEMPORALITY 1 EPISTEMOLOGIST OF ARTIFICIAL INTELLIGENCE SYSTEM **Theoretical Embryology** Augustin Ostace,2017-05-18 To Wicky the Prince a truly Pre Being Embryo of the Life and of the Hope of our Species Homo Sapiens thru which every child of our species is deserving the sameness rights and duties in studying and working overall in the world following the rules and constitution over countries and union of countries In this way Theoretical Embryology wants to be and become hymn and ode of the human creativity in Renaissance and Enlightenment of what is proud and beauty in everyone s THEORETICAL EMBRYOLOGIST **ANCESTORS & SAPIENS** Augustin Ostace,2018-12-26 Before knowing myself better it is necessary to know my Species Sapiens to whom I belong in my entirety both biologically and ontologically But my Species Sapiens belongs at its row to the Genus or Gattung Homo Anthropos by enlisting here the line of Homo Habilis of Homo Ergaster of Homo Erectus of Homo Heidelbergensis possible that of Homo Neanderthal all of them one should know at least in their maximal generality Moreover one ought to know the Hominid Family Orangutan Chimpanzee Bonobo then the Order Primate Class Mammals Phylum Vertebrata Kingdom Animals and the Domain Multi cellular The passing from the universe of single cells of Pre Cambrian era towards the multi cells of Cambrian era remains a huge mystery of evolution on our planetary system Genesis of Sapiens must be accompanied by the Genesis of Life on our Planetary System with Genesis of Solar System of Milky Way Galaxy and Genesis of the Universe in itself Is it this endeavor a Sapiens o mania Not at all it is an encyclopedic and interdisciplinary reality of our Species Sapiens Nothing more nothing less But in which way would be possible to change the whole of Sapiens into a Shooting star Species Possible but reporting the Sapiens to Sapiens itself done through a Philosophical System of the whole Species by re thinking that the truth is the whole as well as in science in philosophy and in anthropology Let s reiterate that nothing in Sapiens makes sense except in the light of creativity through rationality More than that there is no Species owner SAPIENSEIGENT MER Through SAPIENTOLOGIZATION will be reached out the greatest overdrive in additional speed of knowledge episteme and creativity noesis of the whole Sapiens throughout of its development in the last 50 000 years Almost every human being wants to know primarily of where she he comes from who is she he and where she he goes Almost every man would like to know who is her his ancestors are and who will be her his offspring Almost every human being would like to know how was the origin of humankind its past its present existence and to found out to foresee in advance its possible future By observing and researching the nature of human it was taught that without ancestors without preceding branches no offspring would arise

Through the discovery of the laws of nature it has been found or found that the theory of evolution contradicts almost all of the myths of creation of religions and of theologies Through the sciences of Biology of Anthropology and Sapientology the man had ascertained their kinship with the human beings by calling himself as Wisdom man as Intelligent Being as Creative Being or HOMO SAPIENS With this biological name HOMO in connection with the self given artificial names of SAPIENS by INTELLIGENCE the humanity development recognizes many creations and achievements in art in technology in science in civilizations in partial prosperity in the treatment of epidemic diseases in prolongation of average lifespan by admitting also many catastrophic results of wild behaviors as wars as civilizations destroying or as illegal migration as religious fanaticism and terrorism The book Ancestors Sapiens is written and thought in this way and pathway Ancestors of Sapiens through Sapientologist **Spirit of Sapiens** Augustin Ostace, 2018-09-26 In order to know myself better gnothi seauton I have to descend into the strongholds of meditation of pondering and of wise silencing regarding myself regarding my ancestors and regarding my Species itself In order to know myself better gnothi seauton I have to know what is uncertain around me including the triad of what is known with certitude what is uncertain and what is unknown and inside me by reaching the area which is more profound into myself and which is not known perhaps inside myself inside my Species there is something deeper which is not known Ultimately what is known what is uncertain and what is unknown could be the duty triad in every school of thinking in every college or university of creation of all those who are trying the ontological jump in our Species regarding the triad of knowledge axiology epistemology gnoseology Our Book our E Book Spirit of Sapiens is trying to reveal at least philosophically and metaphorically some mysteries of the genesis of our Species of the coming of it into history of our planet its becoming in changing and challenging of it in its Darwinian Neo Darwinian and possible Extra Darwinian evolution and revolution as the spirit of abstractness build up on the spirit of creativity in Hegelian way and pathway through an encyclopaedist conceptologist and videologist Spirit of Encyclopaedist **SAPIENS DOCTRINE - 2** Augustin Ostace, 2024-01-18 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 physics 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 SAPIENTOSCIENCIA 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

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ONCCOLOGY & ONKKOLOGIE Augustin Ostace, 2018-10-29 A hard dialectical conversation between a Clinician in Practical Oncology and a Theoretician of the Philosophical Onccologicum It is Pragmatism versus Idealism or the battlefield between the Physician of the Hippocratic Oath and the Metaphysician of the Platonic Eidos Why this title or belittled through the apparently same term in Oncology but written into a dissimilarity form Onccology Onkkologie Is it a confrontation between English terminology and the German one Or a synthesis between the two like in Denglish Could be this terrible human tumor defeated through a counter tumor Tumor cell to be annihilated through an Anti tumor Cell A cancer cell defeated through an anti tumor Cell Could the classical concept to give birth to the anti concept Alternatively classical terminology to give birth to anti terminology to such questions our endeavor book is trying to give an answer at least in a theoretical form and expression Onccologist Onkkologist

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Table of Contents Encyclopedia Of Computational Mechanics

1. Understanding the eBook Encyclopedia Of Computational Mechanics
 - The Rise of Digital Reading Encyclopedia Of Computational Mechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Encyclopedia Of Computational Mechanics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Encyclopedia Of Computational Mechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Encyclopedia Of Computational Mechanics
 - Personalized Recommendations

- Encyclopedia Of Computational Mechanics User Reviews and Ratings
- Encyclopedia Of Computational Mechanics and Bestseller Lists
- 5. Accessing Encyclopedia Of Computational Mechanics Free and Paid eBooks
 - Encyclopedia Of Computational Mechanics Public Domain eBooks
 - Encyclopedia Of Computational Mechanics eBook Subscription Services
 - Encyclopedia Of Computational Mechanics Budget-Friendly Options
- 6. Navigating Encyclopedia Of Computational Mechanics eBook Formats
 - ePub, PDF, MOBI, and More
 - Encyclopedia Of Computational Mechanics Compatibility with Devices
 - Encyclopedia Of Computational Mechanics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Encyclopedia Of Computational Mechanics
 - Highlighting and Note-Taking Encyclopedia Of Computational Mechanics
 - Interactive Elements Encyclopedia Of Computational Mechanics
- 8. Staying Engaged with Encyclopedia Of Computational Mechanics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Encyclopedia Of Computational Mechanics
- 9. Balancing eBooks and Physical Books Encyclopedia Of Computational Mechanics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Encyclopedia Of Computational Mechanics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Encyclopedia Of Computational Mechanics
 - Setting Reading Goals Encyclopedia Of Computational Mechanics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Encyclopedia Of Computational Mechanics
 - Fact-Checking eBook Content of Encyclopedia Of Computational Mechanics

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web answer d somewhere in region d justification with the test charge and c 1 being negative there is a repulsive force on the test charge to the right from c 2 there is an attractive force on the test charge to the left by referring to coulomb s law $\vec{F} = k \frac{q_1 q_2}{r^2} \hat{r}$ 1 $q_1 = -1 \mu\text{C}$ 2 $q_2 = 2 \mu\text{C}$ 2 we know that the force

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