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the declared goal of this book an extended and revised translation of the german edition 2021 is to show how a unified model of the psyche and body can be developed via insights from psychoanalysis neurology and computer technology on the one hand such a model allows for the testing of psychological and social theories on a scientific basis with the help of simulation experiments on the other hand the model developed according to the functional structures of the human brain and psyche provides the basis for artificial intelligence systems these are systems with cognitive capabilities that can save human lives save energy ensure safety at airports provide support in old age care and in the medical field in other words and generally speaking systems that can simplify our lives in a relevant way and on a broad basis a great deal of time and money is invested in genetic engineering and neurology but research into the mental apparatus in the context of the neurological part i e modeling the brain in a holistic way is sparse in every respect however the results of the scientific project sima of which the first author has been a driving force show that the research of this organ which in the authors understanding includes the mental apparatus as a whole is quite feasible today this is also the main message of the book which addresses topics such as artificial intelligence the brain psychoanalysis behavioral models complexity bionics of the mental emotions and feelings consciousness and awareness preconscious and unconscious the

functional and not only behavioral description and modeling of the brain and especially of the mental apparatus and some more in the world of technology there is generally little interest in psychoanalysis whereas in the world of psychoanalysis people usually refuse to deal with mathematics and technology especially computer technology is there an information theory of the brain on the one hand and of computer technology on the other hand the authors attempt to answer this question from both sides with the goal to reach as many readers as possible and to provoke the authors break with traditions and give space to new forms of thinking and argue that it is crucial to take a new path in automation in artificial intelligence and in technical cognitive science but also in psychoanalysis and neurology in order to create a common basis for scientific and technical possibilities that have been previously inaccessible

this book is about the use of artificial intelligence ai and machine learning in healthcare ai and related technologies are increasingly prevalent in business and society and are beginning to be applied to healthcare these technologies have the potential to transform many aspects of patient care as well as administrative processes within provider payer and pharmaceutical organizations there are already a number of research studies suggesting that ai can perform as well as or better than humans at key healthcare tasks such as diagnosing disease today algorithms are already outperforming radiologists at spotting malignant tumors and guiding researchers in how to construct cohorts for costly clinical trials however for a variety of reasons the authors believe that it will be many years before ai replaces humans for broad medical process domains through this book the authors describe both the potential that ai offers to automate aspects of care and some of the barriers to rapid implementation of ai in healthcare

the conventional order of data integration steps is inverted in the elt extract load and transform data processing methodology a data warehouse or data lake is the intended destination for this method s modified data which is after it is imported directly into the system from the source systems this approach makes use of the processing capacity of contemporary cloud data platforms to execute transformations post data load instead of pre load there was a gradual transition from etl to elt when on premise data warehouses lacked the resources to handle large amounts of data without first converting and filtering it traditional etl made sense this chapter delves into the revolutionary effects of automation technologies on business data warehouse management and multi cloud etl procedures in response to the increasing complexity of real time analytics and data processing the article delves into how firms are using sophisticated automation technologies the essay delves into the techniques for implementation and shows how ai ml and complex orchestration mechanisms are used in current data warehouse automation to improve data quality and operational efficiency this article traces the history of etl from its early days to its current iteration looking at how the change has simplified development while enhancing data processing capabilities automating processes significantly improves processing speed resource usage and cost efficiency according to key studies in addition to discussing ways in which data operations may be scaled while retaining strong control frameworks the essay delves into essential security governance and compliance automation insights into the future of data warehouse automation and its role in facilitating digital transformation are offered by this research which examines real world deployments and industry best practices

a rare combination of personal and academic this book showcases the myriad avenues for transcending the boundaries of reality through direct sensory experience the varieties of magical experience indigenous medieval and modern magic provides a comprehensive volume that examines magic in all its aspects through detailed case studies verbatim accounts of personal experiences and first hand experience from the authors own active participation in many alternative religious rituals and ceremonies this unique book reveals how magic can be a universal phenomenon that crosses cultural historical and spatial boundaries the work is organized in five sections that embrace several broad themes indigenous magical and shamanic practices medieval witchcraft sorcery and hermetic magic and contemporary western magical practices including the role of sexuality trance and meditation the introductory section explores the idea of magic other realities and the employment of all the senses while the final section discusses contemporary issues of ecology and cybermagic the authors give voice to the powerful emotions and feelings that result from a magical encounter providing engaging and accessible information to general readers while those well versed in the opaque world of magic and occultism consciousness studies and imaginal and disembodied realms will appreciate the book s content at a deeper level

in this overview of the modern occult revival nevill drury traces the rise of various forms of magical belief and practice from the influential hermetic order of the golden dawn to the emergence of wicca and goddess worship as expressions of contemporary feminine spirituality he also explores chaos magick and the occult practices of the so called left hand path as well as twenty first century magical forays into cyberspace

amazon s fire phone google glass facebook home quikster new technologies alone don t always cause industry changes future tech explains how the four forces of technology policy business models and social dynamics work together to create industry disruption and how this understanding can help to predict what is coming next technology is generally viewed as the single force that disrupts markets however history is rife with stories of technologies that have failed to meet such hyped expectations in future tech the author reveals that true change only results from combining the forces of science and technology policy and regulation new business models i e sharing economy and social dynamics whether or not people adopt it whether these four forces align explains why some technologies such as ai blockchain robotics synthetic biology and 3d printing stick and why others fail with an understanding of these four forces business executives and policymakers can explain what technology is likely to stick and even anticipate what is coming next by 2030 the global labor force will be led by an elite set of knowledge workers enabled by robotic ai to help individuals thrive in this workplace future tech advises readers to develop their human capabilities of creativity and adaptation develop deep expertise in one domain while being well versed in dozens more and develop a personalized approach to acquiring and processing information and deliberating decisions

die autorinnen und autoren präsentieren in diesem buch die neuesten erkenntnisse in der anwendung von qualitativen forschungsmethoden in den wirtschafts gesundheits und sozialwissenschaften der sammelband stellt beiträge des 2 qualmet symposiums 2018 qualitative methoden vor und fördert den dialog und austausch mit qualitativen forscherinnen und forschern im deutschsprachigen raum die vorgestellten projekte

zeigen sehr anschaulich welchen wichtigen beitrag qualitative forschung zum erkenntnisgewinn in wissenschaft und praxis liefern kann

this book presents insights on digital transformation with a multidisciplinary lens collecting chapters from several management perspectives it provides perspectives on the role of various concepts and elements that are needed by our organizations to win in today s competition this book is a contribution to the organizational to the information and communication technology ict as well as to the sustainability discussion here the readers can find heterogenous inputs to better understand the organizational and technological aspects considering a sustainable business approach this book is for academicians students and practitioners interested in the interplay among it based solutions organizational entities and sustainability issues

the age of extremism with its combination of exact journalism and lively criticism is the first book to define the culture and evolution of extremism from art and science to politics and religion

a fascinating new study from the originator of the gaia theory who conceived the first wholly new way of looking at life on earth since charles darwin independent one of the world s leading scientific thinkers offers a vision of a future epoch in which humans and artificial intelligence unite to save the earth james lovelock creator of the gaia hypothesis and the greatest environmental thinker of our time has produced an astounding new theory about future of life on earth he argues that the anthropocene the age in which humans acquired planetary scale technologies is after 300 years coming to an end a new age the novacene has already begun in the novacene new beings will emerge from existing artificial intelligence systems they will think 10 000 times faster than we do and they will regard us as we now regard plants but this will not be the cruel violent machine takeover of the planet imagined by science fiction these hyperintelligent beings will be as dependent on the health of the planet as we are they will need the planetary cooling system of gaia to defend them from the increasing heat of the sun as much as we do and gaia depends on organic life we will be partners in this project it is crucial lovelock argues that the intelligence of earth survives and prospers he does not think there are intelligent aliens so we are the only beings capable of understanding the cosmos perhaps he speculates the novacene could even be the beginning of a process that will finally lead to intelligence suffusing the entire cosmos at the age of 100 james lovelock has produced the most important and compelling work of his life

why is science so powerful why did it take so long two thousand years after the invention of philosophy and mathematics for the human race to start using science to learn the secrets of the universe in a groundbreaking work that blends science philosophy and history leading philosopher of science michael strevens answers these challenging questions showing how science came about only once thinkers stumbled upon the astonishing idea that scientific breakthroughs could be accomplished by breaking the rules of logical argument like such classic works as karl popper s the logic of scientific discovery and thomas kuhn s the structure of scientific revolutions the knowledge machine grapples with the meaning and origins of science using a plethora of vivid historical examples to demonstrate that scientists willfully ignore religion theoretical

beauty and even philosophy to embrace a constricted code of argument whose very narrowness channels unprecedented energy into empirical observation and experimentation strevens calls this scientific code the iron rule of explanation and reveals the way in which the rule precisely because it is unreasonably close minded overcomes individual prejudices to lead humanity inexorably toward the secrets of nature with a mixture of philosophical and historical argument and written in an engrossing style alan ryan the knowledge machine provides captivating portraits of some of the greatest luminaries in science s history including isaac newton the chief architect of modern science and its foundational theories of motion and gravitation william whewell perhaps the greatest philosopher scientist of the early nineteenth century and murray gell mann discoverer of the quark today strevens argues in the face of threats from a changing climate and global pandemics the idiosyncratic but highly effective scientific knowledge machine must be protected from politicians commercial interests and even scientists themselves who seek to open it up to make it less narrow and more rational and thus to undermine its devotedly empirical search for truth rich with illuminating and often delightfully quirky illustrations the knowledge machine written in a winningly accessible style that belies the import of its revisionist and groundbreaking concepts radically reframes much of what we thought we knew about the origins of the modern world

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