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science 1001 provides clear and concise explanations of the most fundamental and fascinating scientific concepts distilled into 1001 bite sized mini essays arranged thematically this unique reference book moves steadily from the basics through to the most advanced of ideas making it the ideal guide for novices and science enthusiasts whether used as a handy reference an informal self study course or simply as a gratifying dip in this book offers in one volume a world of cutting edge scientific knowledge for the general reader science 1001 is an incredibly comprehensive guide spanning all of the key scientific disciplines including physics chemistry biology the earth space health and medicine social science information science the applied sciences and futurology from newton s elemental laws of motion and the physics of black holes through the fundamental particles of matter to the extraordinary human genome project and the controversial possibilities of cloning and gene therapy dr paul parsons demystifies the key concepts of science in the simplest language and answers its big questions will scientists find a cure for aids how did the universe begin and will we conquer space concluding with an exciting glimpse of what s to come for science from the possibility of time travel to the spectre of transhumanism this really is the only science book you ll ever need

through a series of examples drawn from biology climate science geology environmental science and other disciplines the chapters in this book demystify the process of science and the work that scientists do the authors highlight the many methods used in science and the common characteristics that unite them all as science the examples illustrate that science is a human endeavor and research is enriched and enlivened by the diversity of scientists themselves this book is an excellent companion to any college level introductory science course emphasizing how we know what we know it will also serve as an invaluable resource for undergraduate students preparing to do research for the first time or for anyone who might be interested in learning more about the process of science and scientific research book blurb jay ingram takes us on a tour of the universe and explores scientific wonders big and small science in 100 key breakthroughs presents a series of clear and concise essays that explain the fundamentals of some of the most exciting and important science concepts you really need to know paul parsons profiles the important ground breaking and front of mind scientific discoveries that have had a profound influence on our way of life and will grow in importance with our advancing understanding in 100 sections this book provides an overview of the history of western science from astronomy and physics to geology biology and psychology and everything in between starting with the origins of counting more than 35 000 years ago science in 100 key breakthroughs tells a rich and fascinating story of discovery invention gradual progress and inspired leaps of the imagination many key concepts and discoveries are defined and discussed including the circumference of the earth chaos theory algebra relativity newton s

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principia brownian motion pi wave particle duality germ theory the computer x rays the double helix viruses the human genome readable informative and thought provoking this is the ideal introduction to cutting edge science and the essential overview for anyone who wants to learn more about these often daunting but increasingly essential subjects the well known a bee in a cathedral analogy describes the size of an atom and its nucleus in understandable terms the analogy goes that if an atom were expanded to the size of a cathedral the nucleus would be only about the size of a bee the big book of science uses analogies to demonstrate 100 basic scientific truths and principles in new and exciting ways describing the unbelievably massive the inconceivably tiny and the unfathomably complex in everyday terms readers will be drawn to the book by its combination of intuitive reasoning and a highly visual presentation style it s bursting with facts figures diagrams charts and illustrations each page helps readers understand fundamental scientific principles and theories by using analogies that describe abstract ideas using everyday objects each analogy is explained in direct terms and clearly illustrated a range of facts and figures presented in uniquely accessible infographics complements the analogies the book covers a wide array of scientific topics physics chemistry astronomy biology earth sciences anatomy and technology the analogies include if an atomic nucleus expanded to the size of a marble it would weigh about 100 million tons or roughly the equivalent of 16 great pyramids of egypt it would take a human heart less than 18 days to fill an olympic sized swimming pool the volcanic blast of mount st helens released thermal energy 1 600 times the size of hiroshima krakatoa s 1883 eruption was roughly 13 000 times as powerful as that same bomb informative and engaging the big book of science gives readers a deeper appreciation of the forces and facts that govern the universe and everything in it thrilling bill bryson brilliant tim spector extraordinary alice

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roberts welcome to a revolution in the science of you this is the landmark new book from award winning scientist daniel m davis imagine taking drugs to help you acquire new skills or knowing years in advance the precise likelihood of developing specific cancers or following a diet and health regime tailored to your microbiome or even having continuous monitoring of your body s workings and well being written by an award winning scientist this landmark book shows how these radical and disconcerting possibilities have been made real it is at once a gripping drama of scientific ingenuity discovery and collaboration and a vision of the human body of dizzying complexity and wonder the startling new discoveries are radically altering our understanding of how we function and what our future holds brian cox a big picture forecast of how medicine stands on the threshold of a revolution that will radically change all of our lives the times a fascinating and accessible guide to chemistry and physics using the everyday objects around us an introduction to logic and scientific method by morris r cohen originally published in 1934 preface though formal logic has in recent times been the object of radical and spirited attacks from many and diverse quarters it continues and will probably long continue to be one of the most frequently given courses in colleges and universities here and abroad nor need this be surprising when we reflect that the most serious of the charges against formal logic those against the syllogism are as old as aristotle who seems to have been fully aware of them but while the realm of logic seems perfectly safe against the attacks from without there is a good deal of unhappy confusion within though the content of almost all logic books follows even in many of the illustrations the standard set by aristotles organon terms propositions syllogisms and allied forms of inference scientific method probability and fallacies there is a bewildering babel of tongues as to what logic is about the different schools the traditional the linguistic the psychological the

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epistemological and the mathematical speak different languages and each regards the other as not really dealing with logic at all no task is perhaps so thankless or invites so much abuse from all quarters as that of the mediator between hostile points of view nor is the traditional distrust of the peacemaker in the intellectual realm difficult to appreciate since he so often substitutes an unclear and inconsistent amalgam for points of view which at least have the merit of a certain clarity and yet no task is so essential especially for the beginner when it is undertaken with the objective of adjusting and supplementing the claims of the contending parties and when it is accompanied by a refusal to sacrifice clarity and rigor in thought in so far as an elementary text permits such a thing the present text seeks to bring some order into the confusion of tongues concerning the subject matter of logic but the resolution of the conflicts between various schools which it effects appears in the selection and presentation of material and not in extensive polemics against any school the book has been written with the conviction that logic is the autonomous science of the objective though formal conditions of valid inference at the same time its authors believe that the aridity which is not always unjustly attributed to the study of logic testifies to the unimaginative way logical principles have been taught and misused the present text aims to combine sound logical doctrine with sound pedagogy and to provide illustrative material suggestive of the role of logic in every department of thought a text that would find a place for the realistic formalism of aristotle the scientific penetration of peirce the pedagogical soundness of dewey and the mathematical rigor of russell this was the ideal constantly present to the authors of this book however inadequately this ideal is embodied in the present text the embodiment is not devoid of positive doctrine so presented that at least partial justice is done to supplementary approaches to logic 1 the traditional view of logic as the science of valid inference has been

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consistently maintained against all attempts to confuse logic with psychology where by the latter is meant the systematic study of how the mind works logic as the science of the weight of evidence in all fields cannot be identified with the special science of psychology for such a special science can establish its results only by using criteria of validity employed in other fields as well the newest volume in the beloved science of why series full of fascinating science that will amuse and astonish readers of all ages have you wondered why you cringe when fingernails are scratched along a chalkboard or why some people are left handed or if a shark can smell a drop of blood a mile away then you re in luck bestselling author jay ingram is back to answer all those questions and more as he explores and explains the world around us in all of its head scratching curiosity from the smallest parts inside us to the biggest questions about our universe jay tackles pressing topics such as could we use a laser to shoot an asteroid that was about to hit earth what exactly was a dodo and why did it go extinct what makes peppers spicy touching on everything from food to robots to space to the animal kingdom the science of why 3 is perfect for anyone who has stayed up late into the night pondering the weird and wonderful world we live in full of captivating science questions and answers this book is sure to surprise and delight science readers of all ages discover the real science behind 2001 et signs and all your favorite fictional alien civilizations as space telescopes continue to search for life in this unearthly universe the crucial questions remain unanswered are we awake to the revolutionary effects on human society and science that alien contact will bring and how is it possible to imagine the unknown the science of aliens tells the compelling story of how the portrayal of alien life has evolved over time taking examples from science film and fiction this book showcases how scholars filmmakers and authors have devoted their energies to imagining life beyond this earth from











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 □□□□□□□□ 2015-01 an introduction to logic and scientific method by morris r cohen originallu published in 1934 preface though formal logic has in recent times been the object of radi cal and spirited attacks from many and diverse quarters it con tinues and will probably long continue to be one of the most fre quently given courses in colleges and universities here and abroad nor need this be surprising when we reflect that the most serious of the charges against formal logic those against the syllogism are as old as aristotle who seems to have been fully aware of them but while the realm of logic seems perfectly safe against the attacks from without there is a good deal of unhappy confusion within though the content of almost all logic books follows even in many of the illustrations the standard set by aristotles organon terms propositions syllogisms and allied forms of inference scientific method probability and fallacies there is a bewildering babel of tongues as to what logic is about

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the different schools the traditional the linguistic the psychological the epistemological and the mathematical speak different languages and each regards the other as not really dealing with logic at all no task is perhaps so thankless or invites so much abuse from all quarters as that of the mediator between hostile points of view nor is the traditional distrust of the peacemaker in the intellectual realm difficult to appreciate since he so often substitutes an unclear and inconsistent amalgam for points of view which at least have the merit of a certain clarity and yet no task is so essential especially for the beginner when it is undertaken with the objective of adjusting and supplementing the claims of the contending parties and when it is accompanied by a refusal to sacrifice clarity and rigor in thought in so far as an elementary text permits such a thing the present text seeks to bring some order into the confusion of tongues concerning the subject matter of logic but the resolution of the conflicts between various schools which it effects appears in the selection and presentation of material and not in extensive polemics against any school the book has been written with the conviction that logic is the autonomous science of the objective though formal conditions of valid inference at the same time its authors believe that the aridity which is not always unjustly attributed to the study of logic testifies to the unimaginative way logical principles have been taught and misused the present text aims to combine sound logical doctrine with sound pedagogy and to provide illustrative material suggestive of the role of logic in every department of thought a text that would find a place for the realistic formalism of aristotle the scientific penetration of peirce the pedagogical soundness of dewey and the mathematical rigor of russell this was the ideal constantly present to the authors of this book however inadequately this ideal is embodied in the present text the embodiment is not devoid of positive doctrine so presented that at least partial justice is done to supplementary

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