

"It will be difficult to avoid disaster in the next hundred years."
— Stephen Hawking

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PROSPECTS FOR HUMAN SURVIVAL

S E C O N D E D I T I O N



WILLARD WELLS



Prospects Human Survival Willard Wells

William Poundstone



Prospects Human Survival Willard Wells:

Apocalypse When? Willard Wells, 2010-03-26 This book will be a key trailblazer in a new and upcoming field. The author's predictive approach relies on simple and intuitive probability formulations that will appeal to readers with a modest knowledge of astronomy, mathematics, and statistics. Wells carefully erected theory stands on a sure footing and thus should serve as the basis of many rational predictions of survival in the face of not only natural disasters such as hits by asteroids or comets but perhaps more surprisingly from man-made hazards arising from genetic engineering or robotics. Any formula for predicting human survival will invite controversy. Dr. Wells counters anticipated criticism with a thorough approach in which four lines of reasoning are used to arrive at the same survival formula. One uses empirical survival statistics for business firms and stage shows. Another is based on uncertainty of risk rates. The third, more abstract, invokes Laplace's principle of insufficient reason and involves an observer's random arrival in the lifetime of the entity, the human race, in question. The fourth uses Bayesian theory. The author carefully explains and gives examples of the conditions under which his principle is valid and provides evidence that can counteract the arguments of critics who would reject it entirely. His deflection of possible criticisms results from two major premises: selecting the proper random variable and reference class to make predictions and the recognition that if one does not know the law that governs a process, then the best prediction that can be made is his own formula.

Prospects for Human Survival Willard Wells, 2015-12-14 Advanced technologies such as computers, genetics, nanotech, robotics, and artificial intelligence (AI) are progressing at an accelerating pace. Futurists speak of a time called The Singularity when progress will be so rapid that humans can no longer comprehend it. Many expect it during the mid-century. Wells shows that the pace is too rapid for us to safely adapt. He discusses several of the most frightening hazards to our survival. He also develops simple mathematical formulas for survival probability. This formulation is not based on any list of specific hazards but rather on the pace of progress. Statistical indicators of this pace include gross world product, number of papers published in science and engineering, and production of electricity and selected minerals. Wells makes a strong case for developing friendly superhuman AI as quickly as possible, hopefully a nurturing artificial overlord that will protect us from ourselves. The danger is that it will not be as friendly as we hope, but the alternative is unacceptable risk.

THE INTELLIGENCE OF MACHINES Patrick K. Kalifungwa, 2024-11-13 In a 1951 lecture, Turing Alan, 1951 Turing argued. It seems probable that once the machine thinking method had started, it would not take long to outstrip our feeble powers. There would be no question of the machines dying, and they would be able to converse with each other to sharpen their wits. At some stage, therefore, we should have to expect the machines to take control in the way that is mentioned in Samuel Butler's *Erewhon*. Also in a lecture broadcast on the BBC, Turing Alan, 1951. He expressed the opinion: If a machine can think, it might think more intelligently than we do, and then where should we be? Even if we could keep the machines in a subservient position, for instance, by turning off the power at strategic moments, we should, as a species, feel greatly humbled.

This new danger is certainly something which can give us anxiety as interpreted by Seth Baum Hubert Dreyfus writes In general by accepting the fundamental assumptions that the nervous system is part of the physical world and that all physical processes can be described in a mathematical formalism which can in turn be manipulated by a digital computer one can arrive at the strong claim that the behavior which results from human information processing whether directly formalizable or not can always be indirectly reproduced on a digital machine Dreyfus 1972 John Searle writes Could a man made machine think Assuming it possible produce artificially a machine with a nervous system the answer to the question seems to be obviously yes Could a digital computer think If by digital computer you mean anything at all that has a level of description where it can be correctly described as the instantiation of a computer program then again the answer is of course yes since we are the instantiations of any number of computer programs and we can think Searle 1980 How to Predict Everything William Poundstone,2019-06-06 How do you predict something that has never happened before There s a useful calculation being employed by Wall Street Silicon Valley and maths professors all over the world and it predicts that the human species will become extinct in 760 years Unfortunately there is disagreement over how to apply the formula and some argue that we might only have twenty years left Originally devised by British clergyman Thomas Bayes the theorem languished in obscurity for two hundred years before being resurrected as the lynchpin of the digital economy With brief detours into archaeology philology and overdue library books William Poundstone explains how we can use it to predict pretty much anything What is the chance that there are multiple universes How long will Hamilton run Will the US stock market continue to perform as well this century as it has for the last hundred years And are we really all doomed **Human Extinction** Émile P. Torres,2023-06-15 This volume traces the origins and evolution of the idea of human extinction from the ancient Presocratics through contemporary work on existential risks Many leading intellectuals agree that the risk of human extinction this century may be higher than at any point in our 300 000 year history as a species This book provides insight on the key questions that inform this discussion including when humans began to worry about their own extinction and how the debate has changed over time It establishes a new theoretical foundation for thinking about the ethics of our extinction arguing that extinction would be very bad under most circumstances although the outcome might be on balance good Throughout the book graphs tables and images further illustrate how human choices and attitudes about extinction have evolved in Western history In its thorough examination of humanity s past this book also provides a starting point for understanding our future Although accessible enough to be read by undergraduates Human Extinction contains new and thought provoking research that will benefit even established academic philosophers and historians **The Doomsday Calculation** William Poundstone,2019-06-04 From the author of Are You Smart Enough to Work at Google a fascinating look at how an equation that foretells the future is transforming everything we know about life business and the universe In the 18th century the British minister and mathematician Thomas Bayes devised a theorem that allowed him to assign probabilities to events that

had never happened before It languished in obscurity for centuries until computers came along and made it easy to crunch the numbers Now as the foundation of big data Bayes formula has become a linchpin of the digital economy But here s where things get really interesting Bayes theorem can also be used to lay odds on the existence of extraterrestrial intelligence on whether we live in a Matrix like counterfeit of reality on the many worlds interpretation of quantum theory being correct and on the biggest question of all how long will humanity survive The Doomsday Calculation tells how Silicon Valley s profitable formula became a controversial pivot of contemporary thought Drawing on interviews with thought leaders around the globe it s the story of a group of intellectual mavericks who are challenging what we thought we knew about our place in the universe The Doomsday Calculation is compelling reading for anyone interested in our culture and its future

Mathematics in Popular Culture Jessica K. Sklar,Elizabeth S. Sklar,2014-01-10 Mathematics has maintained a surprising presence in popular media for over a century In recent years the movies Good Will Hunting A Beautiful Mind and Stand and Deliver the stage plays Breaking the Code and Proof the novella Flatland and the hugely successful television crime series NUMB3RS all weave mathematics prominently into their storylines Less obvious but pivotal references to the subject appear in the blockbuster TV show Lost the cult movie The Princess Bride and even Tolstoy s War and Peace In this collection of new essays contributors consider the role of math in everything from films baseball crossword puzzles fantasy role playing games and television shows to science fiction tales award winning plays and classic works of literature Revealing the broad range of intersections between mathematics and mainstream culture this collection demonstrates that even mass entertainment can have a hidden depth *Global Catastrophic Risk* Fouad Sabry,2023-07-02 What Is Global Catastrophic Risk A global catastrophic risk often known as a doomsday scenario is a potential future occurrence that poses a threat to the well being of humans on a worldwide scale and might even put the existence of modern civilization in jeopardy or wipe it out entirely An occurrence that has the potential to permanently and significantly reduce the potential of humanity is referred to as a existential risk How You Will Benefit I Insights and validations about the following topics Chapter 1 Global catastrophic risk Chapter 2 Nick Bostrom Chapter 3 Superintelligence Chapter 4 AI takeover Chapter 5 Human extinction Chapter 6 Differential technological development Chapter 7 Future of Humanity Institute Chapter 8 Existential risk from artificial general intelligence Chapter 9 Global Catastrophic Risks book Chapter 10 Global catastrophe scenarios II Answering the public top questions about global catastrophic risk III Real world examples for the usage of global catastrophic risk in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of global catastrophic risk technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of global catastrophic risk

White Women's Rights Louise Michele Newman,1999-02-04 This study reinterprets a crucial period 1870s 1920s in the history of women s rights focusing attention on a core contradiction at the heart of early feminist theory At a time when

white elites were concerned with imperialist projects and civilizing missions progressive white women developed an explicit racial ideology to promote their cause defending patriarchy for primitives while calling for its elimination among the civilized By exploring how progressive white women at the turn of the century laid the intellectual groundwork for the feminist social movements that followed Louise Michele Newman speaks directly to contemporary debates about the effect of race on current feminist scholarship *White Women s Rights* is an important book It is a fascinating and informative account of the numerous and complex ties which bound feminist thought to the practices and ideas which shaped and gave meaning to America as a racialized society A compelling read it moves very gracefully between the general history of the feminist movement and the particular histories of individual women Hazel Carby Yale University **The Electrical Review** ,1896

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Prospects Human Survival Willard Wells**

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