



The Scientific Imagination
in Science Fiction

Cybernetic Imagination In Science Fiction

Barbara Puschmann-Nalenz



Cybernetic Imagination In Science Fiction:

The Cybernetic Imagination in Science Fiction Patricia S. Warrick, 1980 Science fiction criticism Focuses on literary scientific material *The Cybernetic Imagination in Science Fiction* Patricia Scott Warrick, 1977 The Cybernetics Moment Ronald R. Kline, 2015-07-15 Choice Outstanding Academic Title Cybernetics the science of communication and control as it applies to machines and to humans originates from efforts during World War II to build automatic anti-aircraft systems Following the war this science extended beyond military needs to examine all systems that rely on information and feedback from the level of the cell to that of society In *The Cybernetics Moment* Ronald R. Kline a senior historian of technology examines the intellectual and cultural history of cybernetics and information theory whose language of information feedback and control transformed the idiom of the sciences hastened the development of information technologies and laid the conceptual foundation for what we now call the Information Age Kline argues that for about twenty years after 1950 the growth of cybernetics and information theory and ever more powerful computers produced a utopian information narrative an enthusiasm for information science that influenced natural scientists social scientists engineers humanists policymakers public intellectuals and journalists all of whom struggled to come to grips with new relationships between humans and intelligent machines Kline traces the relationship between the invention of computers and communication systems and the rise decline and transformation of cybernetics by analyzing the lives and work of such notables as Norbert Wiener Claude Shannon Warren McCulloch Margaret Mead Gregory Bateson and Herbert Simon Ultimately he reveals the crucial role played by the cybernetics moment when cybernetics and information theory were seen as universal sciences in setting the stage for our current preoccupation with information technologies Nowhere in the burgeoning secondary literature on cybernetics in the last two decades is there a concise history of cybernetics the science of communication and control that helped usher in the current information age in America Nowhere that is until now Readers have in *The Cybernetics Moment* the first authoritative history of American cybernetics *Information Culture* An extremely interesting and stimulating history of the concepts of cybernetics This is a book for everyone to read relish and think about Choice As a whole the book presents a comprehensive in depth retrospective analysis of the contribution of the American scientific school to the making formation and development of cybernetics and information theory An unquestionable advantage of the book is the skillful use of numerous bibliographic sources by the author that reflect the scientific engineering and social significance of the questions being considered competition of ideas and developments and also interrelations between scientists *Cybernetics and System Analysis* Dr Kline is perhaps uniquely situated to take on so large and complicated a topic as cybernetics Readers unfamiliar with Wiener and his work are well advised to start with this well written and thorough book Those who are already familiar will still find much that is new and informative in the thorough research and reasoned interpretations IEEE History Center The most comprehensive intellectual history of cybernetics in

Cold War America Journal of American History The book will be most valuable as historical background for the large number of disciplines that were involved in the cybernetics moment computer science communications engineering information theory and the social sciences of sociology and anthropology IEEE Technology and Society Magazine Ronald Kline s chronicle of cybernetics certainly does what an excellent history of science should do It takes you there to the golden age of a new exciting field You will almost smell that cigar Second Order Cybernetics Kline s The Cybernetics Moment tracks the rise and fall of the cybernetics movement in more detail than any historical account to date Los Angeles Review of Books

Cybernetic Aesthetics Heather A. Love,2023-09-28 This book shows that modernist literature creatively negotiated the same issues of data processing that cybernetics technologies would later tackle **Transmedia Creatures** Francesca Saggini,Anna Enrichetta Soccio,2018-10-19 On the 200th anniversary of the first edition of Mary Shelley s Frankenstein Transmedia Creatures presents studies of Frankenstein by international scholars from converging disciplines such as humanities musicology film studies television studies English and digital humanities These innovative contributions investigate the afterlives of a novel taught in a disparate array of courses Frankenstein disturbs and transcends boundaries be they political ethical theological aesthetic and not least of media ensuring its vibrant presence in contemporary popular culture Transmedia Creatures highlights how cultural content is redistributed through multiple media forms and modes of production including user generated ones from below that often appear synchronously and dismantle and renew established readings of the text while at the same time incorporating and revitalizing aspects that have always been central to it The authors engage with concepts value systems and aesthetic moral categories among them the family horror monstrosity diversity education risk technology the body from a variety of contemporary approaches and highly original perspectives which yields new connections Ultimately Frankenstein as evidenced by this collection is paradoxically enriched by the heteroglossia of preconceptions misreadings and overreadings that attend it and that reveal the complex interweaving of perceptions and responses it generates Published by Bucknell University Press Distributed worldwide by Rutgers University Press **Science-fiction Studies** ,1981 **Cybernetic Imaginations** Mark Fryers,Marcus K. Harmes,2026 Cybernetics the science of control systems was first popularised as an idea in 1948 following Norbert Wiener s seminal publication on the topic Almost immediately cybernetics gripped the imagination of science fiction writers and film and television producers This collection explores decades of the intersection between cybernetics and speculative fiction from the Cybermen of Doctor Who to the Borg of Star Trek sci fi luminaries from Isaac Asimov to George Lucas and classic works like The Terminator to current outputs like The Mandalorian It is intended as both an introduction to and a showcase for new and cutting edge scholarship on the topic highlighting the urgency of cybernetics research with the rise of artificial intelligence AI anxieties over the potential dehumanisation of society and new futures envisioned for human machine integration As we become accustomed to speaking to nonhuman answering services using AI technology in our writing and even seeing films with

nonhuman actors this collection gives us access to rich fictional speculations about cybernetics that may help us to understand our rapidly changing world Deterrence under Uncertainty: Edward Geist,2023-10-10 For decades films such as WarGames and The Terminator have warned that the combination of artificial intelligence and nuclear weapons might be a recipe for an apocalypse Might these prophecies of doom become reality in coming decades Using insights from computer science Deterrence under Uncertainty Artificial Intelligence and Nuclear Warfare evaluates how AI could make nuclear war winnable and whether that possibility is likely Detailed chapters explain how the landscape of nuclear deterrence is changing and debunks the myths of machine intelligence and nuclear weapons This book gives a practitioner s perspective on how artificial intelligence and other emerging technologies could change the role of nuclear weapons in international relations

The Year's Scholarship in Science Fiction and Fantasy ,1976 Encyclopedia of the Novel Paul Schellinger,2014-04-08 The Encyclopedia of the Novel is the first reference book that focuses on the development of the novel throughout the world Entries on individual writers assess the place of that writer within the development of the novel form explaining why and in exactly what ways that writer is important Similarly an entry on an individual novel discusses the importance of that novel not only form analyzing the particular innovations that novel has introduced and the ways in which it has influenced the subsequent course of the genre A wide range of topic entries explore the history criticism theory production dissemination and reception of the novel A very important component of the Encyclopedia of the Novel is its long surveys of development of the novel in various regions of the world Science Fiction and Postmodern Fiction Barbara Puschmann-Nalenz,1992 In the years after 1950 a new generation of authors began to expand the thematic scope of Science Fiction while also extending its narrative conventions by introducing ideas from modern psychology and surrealism Science Fiction shares the new themes the quest of identity the relativity of time and consciousness the overlapping of illusion and reality with works of modern and especially postmodern fiction On the other hand the innovative postmodern fiction of Pynchon Borges Vonnegut and William Burroughs incorporates Science Fiction motifs thereby blending the two genres This book in a series of juxtapositions and contrastive literary analyses clarifies and questions existing genre borderlines and breaks new ground in the literary theory of postmodern fiction and of Science Fiction **American Novel Explication, 1969-1980** ,2000 Covers criticism of American novels found in journals and books published between the years 1991 and 1995 **The Magazine of Fantasy and Science Fiction** Anthony Boucher,J. Francis McComas,1980 **The Magazine of Fantasy & Science Fiction** ,1979 Futurics ,1980 **The International Fiction Review** ,1980 Utopian Studies II Michael S. Cummings,Nicholas D. Smith,1989 **Cyberpunk Visions** Sharon O'Toole,2004 Utopian Studies ,1995 **PKD** Daniel J. H. Levack,1988

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