Philosophy of TechnologyPhilosophy of TechnologyAnalytical Philosophy of TechnologyReadings in the Philosophy of TechnologyTeaching about TechnologyThe Role of Technology in Science: Philosophical PerspectivesPhilosophy of TechnologyTechnics and PraxisAmerican Philosophy of TechnologyThinking through TechnologyThe Oxford Handbook of Philosophy of TechnologyElements of a Philosophy of TechnologyMaintenance and Philosophy of TechnologyLuciano Floridi's Philosophy of TechnologyTeaching about TechnologyPhilosophy of Technology after the Empirical TurnPhilosophy of TechnologyGünther Anders' Philosophy of TechnologyContributions to a Philosophy of TechnologyPhilosophy of Technology Maarten J Verkerk Frederick Ferré F. Rapp David M. Kaplan Marc J. de Vries Sven Ove Hansson Jan-Kyrre Berg Olsen D. Ihde Hans Achterhuis Carl Mitcham Shannon Vallor Ernst Kapp Mark Thomas Young Hilmi Demir Marc J. de Vries Maarten Franssen P.T. Durbin Babette Babich F. Rapp Don Ihde Philosophy of Technology Philosophy of Technology Analytical Philosophy of Technology Readings in the Philosophy of Technology Teaching about Technology The Role of Technology in Science: Philosophical Perspectives Philosophy of Technology Technics and Praxis American Philosophy of Technology Thinking through Technology The Oxford Handbook of Philosophy of Technology Elements of a Philosophy of Technology Maintenance and Philosophy of Technology Luciano Floridi's Philosophy of Technology Teaching about Technology Philosophy of Technology after the Empirical Turn Philosophy of Technology Günther Anders' Philosophy of Technology Contributions to a Philosophy of Technology Philosophy of Technology Maarten J Verkerk Frederick Ferré F. Rapp David M. Kaplan Marc J. de Vries Sven Ove Hansson Jan-Kyrre Berg Olsen D. Ihde Hans Achterhuis Carl Mitcham Shannon Vallor Ernst Kapp Mark Thomas Young Hilmi Demir Marc J. de Vries Maarten Franssen P.T. Durbin Babette Babich F. Rapp Don Ihde

philosophy of technology an introduction for technology and business students is an

accessible guide to technology s changes their ubiquitousness and the many questions these raise designed for those with no philosophical background in mind it is ideal for technology and engineering students or specialists who want to learn to think critically about how their work influences society and our daily lives the technological business environment and daily experiences are the starting point of the book and the authors reflect upon these practices from a philosophical point of view the text goes on to present a critical analysis of the subject including development manufacturing sales and marketing and the use of technological products and services the abstract ideas are made easier to grasp with a story telling approach a vivid history of the discipline and colourful portraits of the core thinkers in this domain as well as four case studies drawing from various engineering disciplines to demonstrate how philosophy can and should influence technology in practice the first comprehensive introduction to this vibrant young sub discipline in over 20 years this is an ideal textbook for students of technology and engineering beginning a course or project in the philosophy of their subject

in this widely taught introductory survey frederick ferré explains the fundamental concerns and methods of philosophy and then guides readers through a philosophical inquiry into some of the major issues surrounding technology s impact on our lives the first half of the book concentrates on key definitions and epistemological issues including an overview of philosophy as applied to technology a definition of technology and an examination of technology as it relates to practical and theoretical intelligence especially how high technology relates to modern science and how science depends on technical craft the second half addresses the problems of living with technology ferré contrasts karl marx s and buckminster fuller s bright visions of technology and modern existence with the somber visions of martin heidegger and herbert marcuse next in offering direction for an ethical assessment of technology ferré poses questions about workplace automation computers nuclear energy third world development and genetic engineering finally the book considers debates about the mutual influences between technology and religion and technology and metaphysics a glossary and a list of suggested further readings are included providing a philosophical framework that will remain timely in the face of rapid technological change philosophy of technology will help students in both the sciences and liberal arts to examine comprehensively their own and society s fundamental beliefs and attitudes about technology

friedrich rapp in this magisterial and critical essay on technology the complex human

phenomenon that demands philosophy of science philosophy of culture moral insight and historical sensi tivity for its understanding writes modestly of the grave and ten tative situation in the philosophy of technology despite the pro found thinkers who have devoted time and imagination and ratio nal penetration despite the massive literature now available the varied and comparative viewpoints of political analytic despite metaphysical cultural even esthetic commitments indeed despite the honest joining of historical and systematic methods of inves tigation we are far from a satisfactory understanding of the joys and sorrows the achievements and disappointments of the tech nological saga of human societies professor rapp has prepared this report on the philosophical understanding of technology for a troubled world if ever philosophy were needed it is in the prac tical attempt to find alternatives among technologies to foresee dangers and opportunities to choose with a sense of the possibil ity of fulfilling humane values emerson spoke of the scholar not as a specialist apart but as man thinking and rapp s essay so speaks to all of us industrial world or third world engineers or humanists tired or energetic fearful or optimistic

readings in the philosophy of technology is a collection of the important works of both the forerunners of philosophy of technology and contemporary theorists addressing a full range of topics on technology as it relates to ethics politics human nautre computers science and the environment

this book provides an introduction to the philosophy of technology that is accessible to non philosophers it offers a survey of the current state of affairs in the philosophy of technology and also discusses the relevance of that for teaching about technology the book includes questions and assignments and offers an extensive annotated bibliography for those who want to read more about the discipline

this edited volume explores the interplay between philosophies in a wide ranging analysis of how technological applications in science inform our systems of thought beginning with a historical background the volume moves on to explore a host of topics such as the uses of technology in scientific observations and experiments the salient relationship between technology and mechanistic notions in science and the ways in which today s vast and increasing computing power helps scientists achieve results that were previously unattainable technology allows today s researchers to gather in a matter of hours data that would previously have taken weeks or months to assemble it also acts as a kind of metaphor bank providing biologists in particular with analogies the heart as a pump the

nervous system as a computer network that have become common linguistic currency this book also examines the fundamental epistemological distinctions between technology and science and assesses their continued relevance given the increasing amalgamation of the philosophies of science and technology this fresh addition to the literature features pioneering work in a promising new field that will appeal both to philosophers and scientific historiographers

a collection of short interviews based on 5 questions presented to prominent scholars in the field of philosophy of technology

depending on how one construes the kinship relations technology has been either the stepchild of philosophy or its grandfather in either case technology has not been taken into the bosom of the family but has had to wait for attention care and feeding while the more unclear elements science art politics ethics were being nurtured or cleaned up don ihde puts technology in the middle of things and develops a philosophy of technology that is at once distinctive revealing and thought provoking typically philosophy of technology has existed at or beyond the margins of the philosophy of science and therefore the question of technology has come to be posed when it is either by historians of technology or by social critics the philosophy of technology as analysis and critique of the concepts methodologies implicit epistemologies and ontologies of technological praxis and thought has remained underdeveloped when philosophy does turn its attention to the insistent presence of technology it inevitably casts the question in one or another of the dominant modes of philosophical interpretation and reconstruction thus the logic of technological thinking and practice has been a subject of some systematic work e g in the praxiology of kotarbinski and kotarbinska among others and the question of technology s relation to science has been posed in the framework of the nomological model of explanation in the sciences e g

introduces contemporary american philosophy of technology through six of its leading figures the six american philosophers of technology whose work is profiled in this clear and concise introduction to the field albert borgmann hubert dreyfus andrew feenberg donna haraway don ihde and langdon winner represent a new empirical direction in the philosophical study of technology that has developed mainly in north america in place of the grand philosophical schemes of the classical generation of european philosophers of technology including martin heidgger jacques ellul and hans jonas the contemporary american generation addresses concrete technological practices and the co evolution of

technology and society in modern culture six dutch philosophers associated with twente university survey and critique the full scope and development of their american colleagues work often illustrating shifts from earlier to more recent interests individual chapters focus on borgmann s engagement with technology and everyday life dreyfus s work on the limits of artificial intelligence feenberg s perspectives on the cultural and social possibilities opened by technologies haraway s conception of the cyborg and its attendant blurring of boundaries ihde s explorations of the place of technology in the lifeworld and winner s fascination with the moral and political implications of modern technologies american philosophy of technology offers an insightful and readable introduction to this new and distinctly american philosophical turn contributors are hans achterhuis philip brey rené munnik martijntje smits pieter tijmes and peter paul verbeek

what does it mean to think about technology philosophically why try these are the issues that carl mitcham addresses in this work a comprehensive critical introduction to the philosophy of technology and a discussion of its sources and uses tracing the changing meaning of technology from ancient times to our own mitcham identifies the most important traditions of critical analysis of technology the engineering approach which assumes the centrality of technology in human life and the humanities approach which is concerned with its moral and cultural boundaries mitcham bridges these two traditions through an analysis of discussions of engineering design of the distinction between tools and machines and of engineering science itself he looks at technology as it is experienced in everyday life as material objects from kitchenware to computers as knowledge including recipes rules theories and intuitive know how as activity design construction and use and as volition knowing how to use technology and understanding its consequences by elucidating these multiple aspects mitcham establishes criteria for a more comprehensive analysis of ethical issues in applications of science and technology this book will guide anyone wanting to reflect on technology and its moral implications

the oxford handbook of philosophy of technology gives readers a view into this increasingly vital and urgently needed domain of philosophical understanding offering an in depth collection of leading and emerging voices in the philosophy of technology the thirty two contributions in this volume cut across and connect diverse philosophical traditions methodologies and subfields providing the reader with provocative and original insights on the history concepts problems and challenges that mark humanity s attempts to attain deeper and more lasting wisdom about our complex and evolving relationship to

technology

the first philosophy of technology constructing humans as technological and technology as an underpinning of all culture ernst kapp was a foundational scholar in the fields of media theory and philosophy of technology his 1877 elements of a philosophy of technology is a visionary study of the human body and its relationship with the world that surrounds it at the book s core is the concept of organ projection the notion that humans use technology in an effort to project their organs to the outside to be understood as the soul apparently stepping out of the body in the form of a sending out of mental qualities into the world of artifacts kapp applies this theory of organ projection to various areas of the material world the axe externalizes the arm the lens the eye the telegraphic system the neural network from the first tools to acoustic instruments from architecture to the steam engine and the mechanic routes of the railway kapp s analysis shifts from simple tools to more complex network technologies to examine the projection of relations what emerges from kapp s prophetic work is nothing less than the emergence of early elements of a cybernetic paradigm

what can we learn about the nature of technology by studying practices of maintenance and repair this volume addresses this question by bringing together scholarship from philosophers of technology working at the forefront of this emerging and exciting topic the chapters in this volume explore how attending to maintenance and repair can challenge and complement existing ways of thinking about technology focused on use and design and introduce new philosophical perspectives on the relationship between technology time and human practice they examine the significance of maintenance and repair practices at different scales in relation to a diverse range of philosophical traditions and a wide variety of technologies from urban infrastructure such as bridges and buildings to data technologies such as servers and software systems together the contributions highlight common themes in the philosophical study of maintenance including the role of skill the significance of social values and the potential of these practices to transform the technologies to which they are applied by reflecting on the different ways in which we keep technologies going from the devices we use in our homes to the large technical systems which surround us this volume reveals the philosophical significance of practices of maintenance not only as a source of new insights but also as a resource for enriching our understanding of a variety of existing topics in philosophy maintenance and philosophy of technology will appeal to scholars and advanced students working in philosophy of

technology philosophy of engineering and science technology studies chapter 9 of this book is freely available as a downloadable open access pdf at taylorfrancis com under a creative commons attribution non commercial no derivatives cc by nc nd 4 0 license

information and communication technologies of the 20th century have had a significant impact on our daily lives they have brought new opportunities as well as new challenges for human development the philosopher luciano floridi claims that these new technologies have led to a revolutionary shift in our understanding of humanity s nature and its role in the universe florodi s philosophical analysis of new technologies leads to a novel metaphysical framework in which our understanding of the ultimate nature of reality shifts from a materialist one to an informational one in this world all entities be they natural or artificial are analyzed as informational entities this book provides critical reflection to this idea in four different areas information ethics and the method of levels of abstraction the information revolution and alternative categorizations of technological advancements applications education internet and information science epistemic and ontic aspects of the philosophy of information

this book provides an introduction to the philosophy of technology that is accessible to non philosophers it offers a survey of the current state of affairs in the philosophy of technology and also discusses the relevance of that for teaching about technology the book includes questions and assignments and offers an extensive annotated bibliography for those who want to read more about the discipline

this volume features 16 essays on the philosophy of technology that discuss its identity its position in philosophy in general and the role of empirical studies in philosophical analyses of engineering ethics and engineering practices this volume is published about fifteen years after peter kroes and anthonie meijers published a collection of papers under the title the empirical turn in the philosophy of technology in which they called for a reorientation toward the practice of engineering and sketched the likely benefits for philosophy of technology of pursuing its major questions in an empirically informed way the essays in this volume fall apart in two different kinds one kind follows up on the empirical turn discussion about what the philosophy of technology is all about it continues the search for the identity of the philosophy of technology by asking what comes after the empirical turn the other kind of essays follows the call for an empirical turn in the philosophy of technology by showing how it may be realized with regard to particular topics together these essays offer the reader an overview of the state of the art of an

empirically informed philosophy of technology and of various views on the empirical turn as a stepping stone into the future of the philosophy of technology

the corps of philosophers who make up the society for philosophy technology has now been collaborating in one fashion or another for almost fifteen years in addition the number of philosophers world wide who have begun to focus their analytical skills on technology and related social problems grows increasingly every year it would certainly swell the ranks if all of them joined the society it seems more than ap propriate in this context to publish a miscellaneous volume that em phasizes the extraordinary range and diversity of contemporary contribu tions to the philosophical understanding of the exceedingly complex phenomenon that is modern technology my thanks once again to the anonymous referees who do so much to maintain standards for the series and thanks also to the secretaries mary imperatore and dorothy milsom in the philosophy department at the university of delaware their typing and retyping of the mss and especially notes and references also contributes to keeping our standards high paul t durbin vii paul t durbin ed philosophy oft echnology p vii

gunther anders philosophy of technology is the first comprehensive exploration of the ground breaking work of german thinker gunther anders anders philosophy has become increasingly prescient in our digitised technological age as his work predicts the prevalence of social media ubiquitous surveillance and the turn to big data anders ouevre also explored the technologies of nuclear power and the biotech concerns for the human and transhuman condition which have become so central to current theory babette babich argues that anders offers important resources on streaming digital media through his writings on radio television and film and is unusually both a comprehensive and profound thinker anders relationship with key philosophers like hannah arendt and walter benjamin and his thinking on goethe nietzsche and rilke is also explored with a focus on the deep impact he made on his peers it reflects specifically on the intersection of anders thought heidegger and the frankfurt school and how influential a figure he was on the landscape of 20th century philosophy a compelling rehabilitation of a thinker with profound contemporary relevance

the highly sophisticated techniques of modern engineering are normally conceived of in practical terms corresponding to the instrumental function of technology they are designed to direct the forces of nature according to human purposes yet as soon as the realm of mere skills is exceeded the intended useful results can only be achieved through planned

and preconceived action processes involving the deliberately considered application of well designed tools and devices this is to say that in all complex cases theoretical reasoning becomes an indispensable means to accomplish the pragmatic technological aims hence the abstracting from the actual concrete function of technology opens the way to concentrate attention on the general conceptual framework involved if this approach is adopted the relevant knowledge and the procedures applied clearly exhibit a logic of their own this point of view leads to a methodological and even an epistemological analysis of the theoretical structure and the specific methods of procedure characteristic of modern technology investigations of this kind that can be described as belonging to an ana lytical philosophy of technology form the topic of this anthology the type of research in question here is closely akin to that of the philosophy of science but it is an astonishing fact that the commonly accepted and carefully investigated philosophy of science has not yet found its counterpart in an established philosophy of technology

technology s impact on and implications for the social ethical political and cultural dimensions of our world must be seriously considered and addressed philosophy of technology is a clear introduction to one of philosophy s newest issues don inde critically examines the impact of technological developments on various cultures throughout history from the earliest feats of engineering and architecture to the cutting edge developments in artificial intelligence with an aim to understanding the human implications within a world technological culture using a wide variety of concrete examples and illustrations including artificial intelligence robotics and nuclear energy the author looks at both the current situation and future directions in a final chapter he takes the position that the foundational concern for the twenty first century is the global environment followed closely by multiculturality and its effect on technoculture the future of warfare and the distribution of wealth in a world economy special features provides an introduction to the best and most recent literature on the subject places the philosophy of technology within the overall project of philosophy provides a clear and comprehensive overview of the main issue in the field promotes understanding of the special role of philosophical criticism contains a wealth of often humorous and highly imaginative examples that have become the hallmark of this author

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Introduction

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