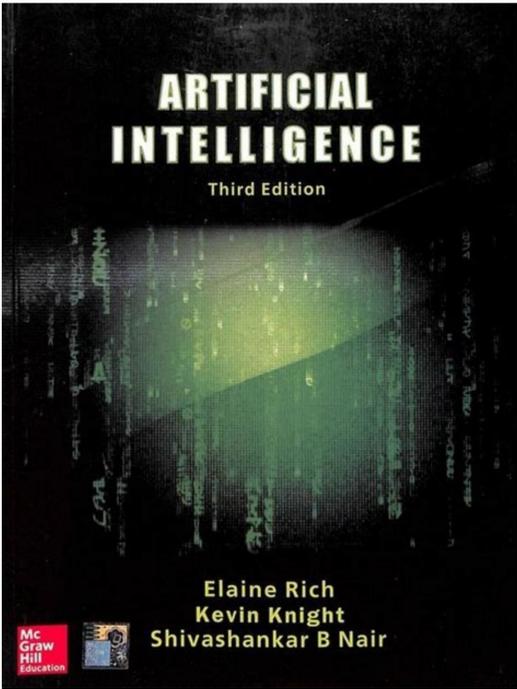


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Support Services 311 Business Processes 312 Decision System 312 Performance Measurement and Reward System 312 Target Costing and Variable Budgeting System 312 Conclusion 315 Bibliography 319 Index 325 Foreword: Systems Thinking: Managing Chaos and Complexity Professor Thomas Lee of MIT was a dear friend. I met him in the early 1980s when he was the Secretary General of the International Institute for Applied Systems Analysis (IIASA). Tom was obsessed with the notion that two distinct traditions of systems thinking—Ackoff's interactive design and Forrester's systems dynamics—are complementary. For years he insisted that we should work together to merge the two prominent systems methodologies into a single unified one. But at the time I was preoccupied with two other exciting conceptions. The first one was consideration of culture as an operating system that guides social organizations toward a goal. The second was a hunch that iteration is the key for understanding complexity. Sadly, Tom passed away, but managed to get a promise from me to work on his favorite project. To fulfill my promise I tried several different approaches, all in vain, before realizing that I had the solution all along. In fact I had used it in the first edition of the present work to combine my version of holistic thinking—iteration of structure, function, and process—with Interactive Design. Suddenly it became clear that Interactive Design is not just a simple methodology. It is also a platform that could be used to integrate the iterative approach, systems dynamics, and the challenge of self-organization of sociocultural systems (neg-entropic process) into a comprehensive systems methodology. I prepared a draft of my thinking and showed it to my mentor Russ Ackoff. He liked it very much and insisted that I should publish it in a new book. Coincidentally, at that time, Dean Thomas Manahan of Villanova University and Niel Sichertman, Associate Dean of Executive Education, asked me to help them design a distinctive Executive MBA program that would use systems thinking as a platform to integrate the relevant subjects into a unified whole. I was ready for this assignment. The systems methodology I had developed was uniquely qualified to deal with the challenge that most MBA programs have not been able to deliver. Four successful classes of Villanova Executive MBA graduates are testimony for the effectiveness of this approach. When Dennis McGonagle, my editor from Elsevier, called to see whether I was ready for a new edition, I welcomed the opportunity to revise chapters 4, 5, 6, and 7 of the present work to incorporate this exciting concept. xv But, in the end, it was the remarkable support of my valued partner Susan Leddick that got the job done. Susan not only edited the revised chapters with utmost attention but also had many invaluable suggestions that improved the outcome significantly. Here it is, my new version of a comprehensive systems methodology. I sincerely believe that the beauty of interactive design and the magic of the iteration of structure, function, and process—when combined with the power of operational thinking, and genuine understanding of neg-entropic processes—create a competent and exciting systems methodology that goes a long way in dealing with emerging challenges of seemingly complex and chaotic sociocultural systems. Jamshid Gharajedaghi Preface: Systems Thinking: Managing Chaos and Complexity This is an unconventional book for an unconventional reader. It is intended for those professionals who, in addition to their specialized knowledge, would like to get a handle on life so they may put their special text into its proper context. It speaks to those thinkers and practitioners who have come to realize that learning to be is as much a necessary part of a successful professional life as is the learning to do; and that to remain unidimensional is to become boringly predictable. This book is about a new mode of seeing, doing, and being in the world; a way of thinking through chaos and complexity. It is not another "how to" book, nor an alternative to what is already available. It is not a variation on the tired theme of offering the latest version of the common characteristics of the winners. It also violates the golden rule of best sellers. I am told the experience of dealing with too many ideas in a single book is way out of the comfort zone of most readers, but given the choice between breaking the message or breaking the norm, it was obvious which one had to go. If that meant being a minority of one, so be it. The ideas in this book, although many, converge and create a whole that is profoundly more beautiful than any one concept in isolation. The real beauty, therefore, lies in experiencing the whole, seeing the concepts all fuse into one. The book, nevertheless, speaks to everyone for whom the joy of thinking is still alive and kicking and whose enthusiasm to entertain exciting but unfamiliar conceptions is not yet exhausted. In a nutshell, the book is about systems. The imperatives of interdependency, the necessity of reducing endless complexities, and the need to produce manageable simplicities require a workable systems methodology and a holistic frame of reference that will allow us to focus on the relevant issues and avoid the endless search for more details while drowning in proliferating useless information. Contrary to widely held belief, the popular notion of a multidisciplinary approach is not a systems approach. The ability to synthesize separate findings into a coherent whole seems far more critical than the ability to generate information from different perspectives. This book, with a practical orientation xvii and yet a profound theoretical depth, goes beyond the simple declaration of the desirability of systems thinking. It deals with the challenges of interdependency, chaos, and choice using an elaborate scheme called iterative design. The iterative design explicitly recognizes that choice is at the heart of human development. Development is the capacity to choose; design is a vehicle for enhancement of choice and holistic thinking. Designers, in this book, seek to choose rather than predict the future. They try to understand rational, emotional, and cultural dimensions of choice and to produce a design that satisfies a multitude of functions. They learn how to use what they already know, how to realize what they do not know, and how to learn what they need to know. The book is divided into four parts. Part I identifies where systems thinking fits into the overall scheme of things. It provides an overview, a total picture of major theoretical traditions in management and systems thinking and their relationship. Parts II and III are the guts of the book. Part II discusses the five systems principles as the building blocks of the mental model used to generate the initial set of assumptions about the system. It also identifies the comprehensive set of variables that collectively describe the organization in its totality. Part III deals extensively with the development of iterative design and its practical implications in defining problems and designing solutions. Part IV reviews five actual cases of designing a business architecture. The Oneida Nation, Butterworth Health Systems, the Marriott Corporation, Commonwealth Energy Systems, and Carrier Corporation represent a diverse group of challenging social organizations. I call them "the gutsy few" because they were willing to experiment with unconventional solutions without worrying about who had done it first. I am grateful for their trust and permission to share synopses of their designs with others. Acknowledgments A lifetime of teaching and consulting involves indebtedness to innumerable sources of wisdom. I have learned from my students and clients far more than I ever taught them. Looking back, I can hardly even begin to recall the fires by which I was warmed, the lights by which I found my way. And yet there are faces that vividly stand out. To them, thankful acknowledgment is in order. First and foremost is Bijan Khorram. It is almost impossible to separate him from so much that is here. As a friend and colleague of over three decades, the effect of his thinking on me knows no bounds. He acted as the sounding board to examine the soundness of ideas and the potency of their configurations. He directly collaborated in the redesigns and write-ups of the cases presented under Systems Practice. Stylistically, his influence permeated the entire exercise. Russell L. Ackoff has been my mentor, partner, and a great friend. He was there, as always, with his infinite wisdom and uncompromising critique to examine every line and dissect every concept of the manuscript. I welcomed his measured views and took most of his recommendations. Johnny Pourdehnan's insatiable love of searching was a blessing. With him around, access to valuable resources was fun rather than an obstruction. Jason Magidson helped with graphics. Pat Brandt and Tina Fellenbaum provided the logistical support. Pat Egner did the editing; the Anglicized version is indebted to her efforts. There were, of course, those who discovered the pony in what I had to say. Professors Gerry Wilson and Tommy Lee, Dean Pat Stocker, Kathy Dannemiller, Martine Dodds, Carol and David Schwinn, Susan Leddick, Bill Roth, and March Jacques just kept cheering me on. Then there were the special clients whose patronage, courage, and intellectual challenge in bringing the conceptual ideas to concrete fruition proved invaluable indeed. Charlie Ligon, Karl J. Krapek, Len Devanna and Artley Skenandore, with their unflinching trust, turned out to be the difference. Last but not least is Karen Speerstra, Publishing Director of Butterworth-Heinemann, who, with remarkable decisiveness, got the project rolling. March Jacques proved to be a fantastic matchmaker. My gratitude to them all will remain a debt I can never repay. Book Review by Jovita Nsoh I will be brief with my review. Brief because this book forced me to think and introduces new paradigms in my routine. The key learning here is that as Engineers, we should always trade places with our customers and that we should adopt user-centric approaches to systems development. The long narratives in the book could put the shortened attention reader to sleep and intimidate the weak at heart. But, there's a lot of wisdom hidden even in those sections. A second reading should reveal them. His discussion of "Holon" and Multi-minded systems as the foundation for socio-cultural systems was a visionary one, and exposed one reality: That platforms such as Facebook and Twitter were possible even as far back as the 1960s if Engineers had changed their perspectives and embraced multi-mindedness as a design paradigm. This book should be read alongside "The Ghost in the Machine (Arkana) by Arthur Koestler (Jun 5, 1990)". Jovita Nsoh, CISM, CISSP, CITAP-Senior Security Architect/Microsoft/Seattle, WA Editorial Reviews Review "Einstein once wrote, "Without changing our pattern of thought, we will not be able to solve the problems we created with our current patterns of thought." Jamshid develops a pattern of thought that will yield solutions to those problems." —Russell Ackoff, Professor Emeritus, The Wharton School, University of Pennsylvania "Gharajedaghi challenged us to think backwards from an ideal competitive position instead of forwards from our existing position with all its constraints. The result was bolder thinking about change. Jamshid forces a realistic assessment of a company's strengths and weaknesses, an idealistic view of what it could be, and creates the path from point A to point B." —Bill Tiefel, President, Marriott Lodging "Gharajedaghi was perfect! He had passion and brilliance. He could challenge our traditional thinking and make us see our actions and opportunities from a different perspective." —William G. Poist, President and CEO, Commonwealth Energy System "This volume on business management explores the development of complex systems and advocates for iterative design principles as a foundational philosophy for dealing with complex, chaotic systems. The volume discusses system theory and changes to traditional paradigms in light of emerging technologies and business methodologies and explores case studies from industry leaders that showcase these systems philosophies." —SciTech Book News We also recommend Originally published: 1999 Author: Jamshid Gharajedaghi Download Systems Thinking: Managing Chaos and Complexity

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