1. Record Nr. UNINA9910484368503321 Autore Mella Piero Titolo The magic ring: systems thinking approach to control systems / / Piero Mella Pubbl/distr/stampa Cham, Switzerland: ,: Springer, , [2021] ©2021 **ISBN** 3-030-64194-5 Edizione [2nd ed.] Descrizione fisica 1 online resource (875 pages): illustrations Collana Contemporary Systems Thinking Disciplina 003.5 Soggetti Control theory System theory Teoria de control Teoria de sistemes Llibres electrònics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Intro -- Preface to the First Edition -- Preface to the Second Edition --Contents -- List of Figures -- List of Tables -- Part I: Discovering the "Ring" -- Chapter 1: The Language of Systems Thinking for Control Systems -- 1.1 The Sixth Discipline: The Discipline of Control Systems -- 1.2 The Fifth Discipline: The Five Basic Rules of Systems Thinking --1.3 The Construction of Models Based on Systems Thinking: The Rings -- 1.4 From Systems Thinking to System Dynamics: A Simulation of a Dynamic System -- 1.5 Two Fundamental Laws of Systems Thinking -- 1.6 Systems Archetypes: Three Relevant Structures of Human Behavior-The Archetypes of the Three Myopias -- 1.7 Complementary Material -- 1.7.1 Reinforcing Loop: Arms Escalation --1.7.2 Reinforcing Loops: Virus Explosion -- 1.7.3 Multiple Loops: The Law of Accelerating Returns -- 1.7.4 The General Law of Dynamic

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