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Autore	Laske Otto
Titolo	Advanced systems-level problem solving . Volume 1 Approaching real-world complexity with dialectical thinking // Otto Laske
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Descrizione fisica	1 online resource (xxix, 193 pages) : illustrations (some color)
Disciplina	153.42
Soggetti	Problem solving Psychology, Industrial Thought and thinking Identificació de sistemes Dialèctica Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Intro -- Foreword -- Preface -- References -- Acknowledgments -- Introduction to the Monograph -- Relationship of the Monograph to the Tradition of Systems Thinking -- Bibliography -- Contents -- Abbreviations -- Chapter 1: What Is Your Inquiring System? -- The Intrinsic Fragility of "Thinking" -- What Does It Mean, Then, to Think as an Adult? -- The Path Not Often Taken -- Three Inquiring Systems -- Three Lines of Cognitive Development -- Four Eras of Cognitive Development -- This Book's Central Tenets -- Intermediate Summary -- Empirical Evidence of Dialectical Thinking in Adults -- Some Examples of Dialectical Thinking or Lack Thereof -- Mary -- Diagnosis -- Helen -- Diagnosis -- Judy -- Diagnosis -- Practical Wisdom -- Four Cognitive Transforms -- From Practical Wisdom to Common Sense -- Chapter Summary -- Practice Reflections -- Exercises (8 Instructions and 2 Questions) -- Bibliography -- Chapter 2: Modifications of Truth Over the Lifespan -- Introduction -- Three Competing Mental Processes -- The Link Between Social-Emotional and Cognitive

Development -- Working Hypothesis -- Example of a Higher Epistemic Position -- Assumptions About Knowledge and Truth -- Influence of Social-Emotional Maturity on Epistemic Position -- The "Stage 2," Instrumentalist Perspective on Knowledge -- The Journey Toward Other-Dependence -- First Inklings of Uncertainty, Kept Under Wraps -- The Move Beyond Other-Dependence -- The Murky Waters of Beginning Dialectics -- The Onset of Post-formal Thinking -- The Move to a Self-Authoring Position -- A First Glimpse of Thought Forms -- Three Kinds of Equilibrium -- The Move to a Self-Aware Position -- Interlude -- A Meta-Systemic View of the Merger -- Chapter Summary -- Consequences for Coaching and Consulting Practice -- Practice Reflections -- Exercises -- Bibliography.

Chapter 3: Dialectic: A Framework for Its Practical Use -- Chapter Emphasis -- Different Views of Dialectic -- Three Models of Dialectic -- The Four Moments of Dialectic -- The Critical and Constructive Moments of Dialectic -- Moments of Dialectic Represented by Classes of Thought Forms -- Dialectical Versus Kantian Inquiring Systems -- Equivalence of Moments of Dialectic in Bhaskar and Basseches -- Transforms and the Moments of Dialectic -- The Individual Moments of Dialectic -- The Dialectic of Context -- Thought Contexts -- Context -- The Dialectic of Process -- The Dialectic of Relationship -- The Moments as a Set of Relationships -- Constitutive Relationships -- Incomplete Descriptions -- Relationship -- The Dialectic of Transformational Systems -- Transformational System -- From Moments to Thought Forms -- The Crucial Transition from the Second to the Third Order of Mental Complexity -- Comments on the Table -- Categorical Errors -- Chapter Summary -- Practice Reflections -- Exercises -- Bibliography -- Chapter 4: How Well-Tempered Is Your Thought Clavier? -- Introduction -- Part A: The Context of Cognitive Development -- Review of Cognitive Development -- The Path Toward Dialectical Thinking -- The Unity of Consciousness -- A Concrete Example -- Interpretation of the Example -- Linking Logos and Mythos -- Cognitive Development Occurs in Phases Not Stages -- In Search of More Ample Mental Spaces -- Cognitive Equilibrium -- Assimilation and Accommodation Processes of Thinking -- Two Models of Dialectics -- What "Develops" in Cognitive Development? -- Focus of Attention -- How to Distinguish the Four Classes -- Four Classes of Thought Forms -- Thought Form Coordination -- Critical Versus Constructive Thinking -- Cognitive Coaching: Using Thought Forms as Mind Openers -- Part B: A Phasic Theory of the Development of Dialectical Thinking. Complex Logical Thinking as a Precursor to Dialectical Thought -- What Actually Triggers Dialectical Thinking -- How Dialectical Thinking Develops Over the Human Lifespan -- The Relevance of Phase 3 -- Example -- The Coordination of Epistemic, Dialectical, and Organizational Capabilities -- The World as Seen in Each of the Four Phases -- The Phase 1 World -- The Phase 2 World -- The Phase 3 World -- The Phase 4 World -- The Openness and Uncertainty of Cognitive Development -- An Important Distinction -- The Four Phases Viewed in Terms of Accommodation and Assimilation -- The Stratification of "Human Being" -- Chapter Summary -- Practice Reflections -- Exercises -- Bibliography -- Chapter 5: A Process Model of Social-Emotional Development -- Introduction -- Social-Emotional and Cognitive Orders of Mental Complexity -- Outline of Thought Development in Adults -- The Cognitive Structure of Social-Emotional Shifts -- The Stark Limitations of Developmental Stage Models -- Comments on the Stage-Thought Form Alignment -- The S-2 to S-3 Range -- The S-3 to S-4 Range -- The S-4 to S-5 Range -- Relation of Post-autonomous Stages to Practical Wisdom -- New Research

Topics -- Chapter Summary -- Practice Reflections -- Exercises (See Table 4.4) -- Bibliography -- Untitled -- Glossary -- Index.

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Sommario/riassunto

This three-volume set introduces the practice of advanced, 'dialectical' systems-level problem solving in both the social and natural sciences. In social science, it opens new vistas regarding organizational, strategy, and work design. In the natural sciences, it provides heretofore missing conceptions of physical systems in peril due to the climate crisis. In addition, the author draws conclusions that are important for advancing generative AI. The monograph presents novel conceptual tools that directly impact the internal structure of a systems analyst's mental processing in real time. While the first volume lays the theoretical groundwork for dialectical systems analysis, the second, focusing on the nature of work, lays bare the structure of complex thinking in terms of the 'thought forms' it requires. In order to facilitate better understanding of the principles taught in the first two volumes, the third volume provides a Manual of Dialectical Thought Forms, which is the only one in existence today.

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