1. Record Nr. UNINA9910464521303321

Autore	Walton Douglas N
Titolo	Abductive Reasoning [[electronic resource] /] / Douglas Walton
Pubbl/distr/stampa	Tuscaloosa, Ala., : University of Alabama Press, 2004
ISBN	0-8173-8761-7
Descrizione fisica	1 online resource (320 p.)
Disciplina	160
Soggetti	Reasoning Abduction (Logic) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [283]-294) and index.
Nota di contenuto	Contents; Acknowledgments; Introduction; 1. Abductive, Presumptive, and Plausible Arguments; Abductive Inference; Peirce on the Three Types of Reasoning; Peirce on the Form of Abductive Inference; Scientific Discovery and Artificial Intelligence; Abductive Inference in Legal Evidence; Defeasible, Plausible, and Presumptive Reasoning; Tentative Definitions; Argumentation Schemes; Araucaria as a Tool for Argument Diagramming; 2. A Dialogue Model of Explanation; Types of Explanation; Models of Scientific Explanation; Simulation, Understanding, and Making Sense Scripts, Anchored Narratives, and ImplicaturesThe Dialogue Model of Explanation; The Speech Act of Explanation; Dialogue Models of Scientific Argumentation and Explanation; Examination Dialogue and Shared Understanding; Dialectical Shifts and Embeddings; 3. A Procedural Model of Rationality; Computational Dialectics; Reasoning as Chaining of Inferences; Forward and Backward Chaining Rule-Based Systems in Artificial Intelligence; The Problem of Enthymemes; Multiagent Practical Reasoning; Bounded Rationality; 4. Defeasible Modus Ponens Arguments A Typical Case of Abductive Reasoning in Evidence LawArgumentation from Consequences; Defeasible Inferences and Modus Ponens; Conditionals and Generalizations; Abductive Inference in Medical Diagnosis; Introducing Defeasible Modus Ponens; Using Defeasible Modus Ponens as an Argumentation Scheme; 5. Abductive Causal

Reasoning; Necessary and Sufficient Conditions; Forms of Causal Argumentation; Argument from Correlation to Cause; Abductive Causal Reasoning in Law; Causal Abduction in Medical Examination and Diagnosis; Causal Reasoning as Dynamic Improvement of a Hypothesis The Thesis That Causal Reasoning Is AbductiveCausal Explanations; The Chain of Reasoning in the Accident Case; Insights into Causal Argumentation Yielded by the Abductive Theory; 6. Query-Driven Abductive Reasoning; Argument Extrapolation by Chaining Forward; Colligation in Chaining Backward; The Form of Abductive Inference Revisited; Belief-Desire-Intention and Commitment Models; The Abductive Profile of Dialogue; Abduction as a Query-Driven Process; Discovery as an Open Process; Retraction of Commitment; The Four Phases of Abductive Reasoning; 7. Unsolved Problems of Abduction Abduction and Argumentation SchemesEnthymemes, Argumentation Schemes, and the Defeasible Modus Ponens Form of Reasoning; The Role of Examination in Science; Accounts and Explanations; The Problem of Inconsistency; How Abductive Reasoning Moves Forward by Examining Competing Accounts; Question-Answering and Critiquing Systems in Artificial Intelligence; Summary of Abduction as a Heuristic; Notes; References; Index

Sommario/riassunto

This book examines three areas in which abductive reasoning is especially important: medicine, science, and law. The reader is introduced to abduction and shown how it has evolved historically into the framework of conventional wisdom in logic. Discussions draw upon recent techniques used in artificial intelligence, particularly in the areas of multi-agent systems and plan recognition, to develop a dialogue model of explanation. Cases of causal explanations in law are analyzed using abductive reasoning, and all the components are finally brought together to build a new account of abd

2. Record Nr. UNINA9910827464903321

Autore	Zhang Weihong
Titolo	Milling simulation : metal milling mechanics, dynamics and clamping principles / / Weihong Zhang, Min Wan
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : ISTE Ltd : , : John Wiley and Sons Inc, , 2016 ©2016
ISBN	1-119-26290-9 1-119-26289-5
Descrizione fisica	1 online resource (276 p.)
Collana	Numerical Methods in Engineering Series
Disciplina	671.35
Soggetti	Milling (Metal-work) Milling (Metal-work) - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Introduction; 1: Cutting Forces in Milling Processes; 2: Surface Accuracy in Milling Processes; 3: Dynamics of Milling Processes; 4: Mathematical Modeling of the Workpiece-Fixture System; Bibliography; Index; Other titles from ISTE in Numerical Methods in Engineering; EULA; I.1. Cutting force modeling; I.2. Surface quality simulation; I.3. Chatter stability analysis; I.4. Clamping system design; I.5. Purpose of this book; 1.1. Formulations of cutting forces; 1.2. Milling process geometry ; 1.3. Identification of the cutting force coefficients 1.4. Ternary cutting force model including bottom edge cutting effect1. 5. Cutting force prediction in peripheral milling of a curved surface; 2.1. Predictions of surface form errors; 2.2. Control strategy of surface form error; 2.3. Surface topography in milling processes; 3.1. Governing equation of the milling process; 3.2. Method for obtaining the frequency response function; 3.3. Prediction of stability lobe; 4.1. Criteria of locating scheme correctness; 4.2. Analysis of locating scheme correctness; 4.3. Analysis of workpiece stability 4.4. Modeling of the workpiece-fixture geometric default and compliance4.5. Optimal design of the fixture clamping sequence; 1.1.1. Mechanics of orthogonal cutting; 1.1.2. Cutting force model for a

general milling cutter; 1.2.1. Calculations of uncut chip thickness; 1.2.2. Determination of entry and exit angles; 1.3.1. Calibration method for general end mills; 1.3.2. Calibration method in the frequency domain; 1.3.3. Calibration method involving four cutter runout parameters; 1.3.4. Identification of shear stress, shear angle and friction angle using milling tests
3.2.1. Derivation of calculation formulations3.2.2. Identification of model parameters; 3.3.1. Improved semi-discretization method; 3.3.2. Lowest envelope method; 3.3.3. Time-domain simulation method; 4.1.1. The DOFs constraining principle; 4.1.2. The locating scheme; 4.1.3. Judgment criteria of locating scheme correctness; 4.1.4. Analysis of locating scheme incorrectness; 4.2.1. Localization source errors; 4.2.2. Fixture modeling; 4.2.3. Locating scheme correctness; 4.3.1. Modeling of workpiece stability; 4.3.2. Solution techniques to the model of workpiece stability
4.4.1. Source error analysis