

# Keywords And Concepts In Evolutionary Developmental Biology Harvard University Press Reference Library

The Big Book of Concepts Concepts in Action Thinking with Concepts Concepts in Film Theory Concepts and Categories Dictionary of Theories, Laws, and Concepts in Psychology Issues and Concepts in Historical Ecology Concepts in Thought, Action, and Emotion Theories, Models and Concepts in Ancient History Cases and Concepts in Comparative Politics Instructional Process and Concepts in Theory and Practice Compositionality and Concepts in Linguistics and Psychology Basic Concepts of Mathematics and Logic Key Concepts in Language and Linguistics How to Use Objects Concepts of Force The Knowledge Book Psychodynamic Concepts in General Psychiatry Concepts of Biology Basic Concepts in Modern Mathematics Social Life and Concepts in Medieval Hindi Bhakti Poetry Key Concepts in Curriculum Studies Concepts Threshold Concepts in Practice Dictionary of Concepts in History My Big Touch-And-Feel Concepts Book Concepts of Matter in Science Education Concepts in Surface Physics Using Concepts in Medieval History Systems Concepts in Action Fundamental Skills and Concepts in Patient Care Developing Number Concepts: Place value, multiplication, and division Concepts in Law Visions and Concepts for Education 4.0 Basic Ideas and Concepts in Nuclear Physics. An Introductory Approach Concepts Key Concepts in Energy Science: Key Concepts in Philosophy Key Concepts in Tourism Research Key Concepts in Teaching Primary Mathematics

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Visions and Concepts for Education 4.0 Dec 29 2019 This book contains papers in the fields of Interactive, Collaborative, and Blended Learning; Technology-Supported Learning; Education 4.0; Pedagogical and Psychological Issues. With growing calls for affordable and quality education worldwide, we are currently witnessing a significant transformation in the development of post-secondary education and pedagogical practices. Higher education is undergoing innovative transformations to respond to our urgent needs. The change is hastened by the global pandemic that is currently underway. The 9th International Conference on Interactive, Collaborative, and Blended Learning: Visions and Concepts for Education 4.0 was conducted in an online format at McMaster University, Canada, from 14th to 15th October 2020, to deliberate and share the innovations and strategies. This conference 's main objectives were to discuss guidelines and new concepts for engineering education in higher education institutions, including emerging technologies in learning; to debate new conference format in worldwide pandemic and post-pandemic conditions; and to discuss new technology-based tools and resources that drive the education in non-traditional ways such as Education 4.0. Since its beginning in 2007, this conference is devoted to new learning approaches with a focus on applications and experiences in the fields of

interactive, collaborative, and blended learning and related new technologies. Currently, the ICBL conferences are forums to exchange recent trends, research findings, and disseminate practical experiences in collaborative and blended learning, and engineering pedagogy. The conference bridges the gap between 'pure' scientific research and the everyday work of educators. Interested readership includes policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, industry-centric educators, continuing education practitioners, etc.

**Science: Key Concepts in Philosophy** Aug 24 2019 A great text for students wishing to examine the questions raised in the philosophy of science. An ideal first guide to this challenging subject.

**Concepts** Dec 09 2020 Traces the development of one of the most active areas of investigation in cognitive science, bringing together the essential background readings and providing a broad sampling of contemporary research.

**Concepts of Biology** Apr 12 2021 Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

**Concepts in Law** Jan 28 2020 During the last decades, legal theory has focused almost completely on norms, rules and arguments as the constitutive elements of law. Concepts were mostly neglected. The contributions to this volume try to remedy this neglect by elucidating the role concepts play in law from different perspectives. A main aim of this volume is to initiate a debate about concepts in law. Åke Frändberg gives an overview of the many different uses of concepts in law and shows amongst others that concepts in the law should not be confused with the role of concepts in descriptions of the law. Dietmar von der Pfordten criticizes the restriction to norms as parts of the law in contemporary legal theory by questioning what concepts are and what their function is, both in general and in legal conceptual schemes. Giovanni Sartor assumes the inferential analysis of meaning proposed by Alf Ross in his ground breaking paper *Tû-tû* and addresses the question how possession of a concept, including the rules defining it, is possible without endorsing these rules. Jaap Hage argues that 1. legal status words such as 'owner' have a meaning because they denote things or relations in institutional reality, 2. the meaning of these words consists in this denotation relation, 3. knowledge of this meaning presupposes knowledge of the rules governing these words. Torben Spaak contributes to this volume with an exemplary analysis of one of the most central concepts of the law, namely that of a legal power. Lorenz Kähler discusses the role of concepts in determining the scope of application of legal rules and raises from this perspective the question to what extent legal concept formation can be arbitrary. Ralf Poscher argues that as soon as a concept is used in stating the law, the precise scope of application of this concept has become a legal matter. This means that the use of 'moral' concepts in the law does not automatically lead to a moral import into the law. Dennis Patterson holds that Hart's concept of law can be understood as a so-called 'practice theory' and provides an overview of such a theory.

**Developing Number Concepts: Place value, multiplication, and division** Feb 29 2020 Developing number concepts (grades prep-2) :DS21882.

**Compositionality and Concepts in Linguistics and Psychology** Nov 19 2021 By highlighting relations between experimental and theoretical work, this volume explores new ways of addressing one of the central challenges in the study of language and cognition. The articles bring together work by leading scholars and younger researchers

in psychology, linguistics and philosophy. An introductory chapter lays out the background on concept composition, a problem that is stimulating much new research in cognitive science. Researchers in this interdisciplinary domain aim to explain how meanings of complex expressions are derived from simple lexical concepts and to show how these meanings connect to concept representations. Traditionally, much of the work on concept composition has been carried out within separate disciplines, where cognitive psychologists have concentrated on concept representations, and linguists and philosophers have focused on the meaning and use of logical operators. This volume demonstrates an important change in this situation, where convergence points between these three disciplines in cognitive science are emerging and are leading to new findings and theoretical insights. This book is open access under a CC BY license.

**My Big Touch-And-Feel Concepts Book Sep 05 2020** Colors, shapes, numbers, and opposites. These basic concepts are fundamental lessons in early toddler education. Young readers are in for a multisensory treat with this big book containing 120 words and 40 touch-and-feel elements. Discover bright colors at a carnival, touch the sticky splotches of paint, count the number of spots on a ladybug, and trace the shiny star and spiral shapes. There's so much to see, touch, and discover! A hands-on learning experience that encourages sensory awareness, builds vocabulary skills, and develops word and picture associations, this interactive volume is a must-have for a young child's growing library!

**Dictionary of Theories, Laws, and Concepts in Psychology May 26 2022** A fully cross-referenced and source-referenced dictionary which gives definitions of psychological terms as well as the history, critique, and relevant references for the terms.

**Concepts of Force Jul 16 2021** This work by a noted physicist traces conceptual development from ancient to modern times. Kepler's initiation, Newton's definition, subsequent reinterpretation — contrasting concepts of Leibniz, Boscovich, Kant with those of Mach, Kirchhoff, Hertz. "An excellent presentation." — Science.

**Using Concepts in Medieval History Jun 02 2020** This book is the first of its kind to engage explicitly with the practice of conceptual history as it relates to the study of the Middle Ages, exploring the pay-offs and pitfalls of using concepts in medieval history. Concepts are indispensable to historians as a means of understanding past societies, but those concepts conjured in an effort to bring order to the infinite complexity of the past have a bad habit of taking on a life of their own and inordinately influencing historical interpretation. The most famous example is feudalism, whose fate as a concept is reviewed here by E.A.R. Brown nearly fifty years after her seminal article on the topic. The volume contributors offer a series of case studies of other concepts 'colony', 'crisis', 'frontier', 'identity', 'magic', 'networks' and 'politics' that have been influential, particularly among historians of Britain and Ireland in the later Middle Ages. The book explores the creative friction between historical ideas and analytical categories, and the potential for fresh and meaningful understandings to emerge from their dialogue.

**Key Concepts in Language and Linguistics Sep 17 2021** A comprehensive critical work, *Key Concepts in Language and Linguistics* is a highly readable A-Z guide to the main terms and concepts used in the study of language and linguistics.

**Concepts and Categories Jun 26 2022** Why do people like books, music, or movies that adhere consistently to genre conventions? Why is it hard for politicians to take positions that cross ideological boundaries? Why do we have dramatically different expectations of companies that are categorized as social media platforms as opposed to news media sites? The answers to these questions require an understanding of how people use basic concepts in their everyday lives to give meaning to objects, other people, and social situations and actions. In this book, a team of sociologists presents a groundbreaking model of concepts and categorization that can guide sociological and cultural analysis of a wide variety of social situations. Drawing on research in various fields, including cognitive science, computational linguistics, and psychology, the book develops an innovative view of concepts. It argues that concepts have meanings that are probabilistic rather than sharp, occupying fuzzy, overlapping positions in a "conceptual space." Measurements of distances in this space reveal our mental representations of categories. Using this model, important yet commonplace phenomena such as our routine buying decisions can be quantified in terms of the cognitive distance between concepts. *Concepts and Categories* provides an essential set of formal theoretical tools and illustrates their application using an eclectic set of methodologies, from micro-level controlled experiments to macro-level language processing. It illuminates how explicit attention to concepts and categories

can give us a new understanding of everyday situations and interactions.

**Key Concepts in Energy** Sep 25 2019 Organized around eight fundamental ideas, *Key concepts in energy history* explores the discoveries, technologies and new paradigms in the field of energy, and how they have changed the course of history. Complex technical concepts such as the “ rebound effect ” , “ technological hybridization ” , “ marginal cost pricing ” are explained in clear terms and a balanced and concise account of energy sources in the XIX and XX century such as wood, coal, oil, hydroelectricity and nuclear energy is provided. *Key concepts in energy* considers the process of energy-substitutions and analyzes it as a process of complementary usages, hybridization and technological mixes. The ex-post view tends to focus on replacement from among alternative energy-technologies and is basically innovation-centric. This means that little attention has been given to factors such as the windows of opportunities created by governments, inventors and entrepreneurs. This book highlights how key energy concepts surfaced, tracing their evolution throughout history. It encompasses four economic concepts (rebound effect, energy intensity, marginal cost pricing and levelized cost accounting) and four technological-engineering concepts (primary/final energy, technological hybridization, last gasp and probable oil reserves). The main benefit from reading the book is a cross disciplinary overview of energy fundamentals in a short and focused reading.

**Psychodynamic Concepts in General Psychiatry** May 14 2021 *Psychodynamic Concepts in General Psychiatry* brings together 37 nationally recognized psychodynamic psychiatrists who discuss in detail their understanding of how to work with specific types of patients. Separate chapters on clinical syndromes, including some of the most challenging that psychiatrists encounter--for example, in self-destructive, posttraumatic, and abused patients--provide both a historical review of dynamic perspectives and a detailed discussion of differential diagnosis and treatment selection for each disorder. Extensive clinical examples illustrating the underlying psychodynamic conflicts of patients with these disorders are presented as well. Also addressed in this volume are the psychological aspects of the settings in which therapy is practiced and the ways in which those settings affect both the psychiatrist and the patient. The final section contains chapters on current topics of particular relevance: the psychology of prescribing and taking medication, the meaning and impact of interruptions in treatment, and the provocative findings of new outcome research and cost-offset studies. The book closes with a recommended curriculum for training in psychodynamic psychiatry.

**Social Life and Concepts in Medieval Hindi Bhakti Poetry** Feb 08 2021

**Systems Concepts in Action** May 02 2020 *Systems Concepts in Action: A Practitioner's Toolkit* offers out a wide range of systems methods to help readers investigate, evaluate and intervene in complex messy situations.

**The Big Book of Concepts** Oct 31 2022 Concepts embody our knowledge of the kinds of things there are in the world. Tying our past experiences to our present interactions with the environment, they enable us to recognize and understand new objects and events. Concepts are also relevant to understanding domains such as social situations, personality types, and even artistic styles. Yet like other phenomenologically simple cognitive processes such as walking or understanding speech, concept formation and use are maddeningly complex. Research since the 1970s and the decline of the "classical view" of concepts have greatly illuminated the psychology of concepts. But persistent theoretical disputes have sometimes obscured this progress. *The Big Book of Concepts* goes beyond those disputes to reveal the advances that have been made, focusing on the major empirical discoveries. By reviewing and evaluating research on diverse topics such as category learning, word meaning, conceptual development in infants and children, and the basic level of categorization, the book develops a much broader range of criteria than is usual for evaluating theories of concepts.

**Thinking with Concepts** Aug 29 2022 In his preface Mr Wilson writes 'I feel that a great many adults ... would do better to spend less time in simply accepting the concepts of others uncritically, and more time in learning how to analyse concepts in general'. Mr Wilson starts by describing the techniques of conceptual analysis. He then gives examples of them in action by composing answers to specific questions and by criticism of quoted passages of argument. Chapter 3 sums up the importance of this kind of mental activity. Chapter 4 presents selections for the reader to analyse, followed by questions of university entrance/scholarship type. This is a book to be worked through, in a sense a text-book.

**The Knowledge Book** Jun 14 2021 "*The Knowledge Book*" is a unique interdisciplinary reference work for students and researchers concerned with the nature of knowledge. It is the first work of its kind to be organized on

the assumption that whatever else knowledge might be, it is intrinsically social. The book consists of 42 alphabetically arranged entries on key concepts at the intersection of philosophy and sociology - what used to be called "sociology of knowledge" but is now increasingly called "social epistemology". The entries include concepts common to disciplines that in recent years have devoted more of their attention to knowledge: cultural studies, communication studies, information science, education, policy studies and business studies. Special attention is given to concepts from the emerging field of science and technology studies. Each entry presents a short, self-contained essay providing an overview of a concept and concludes with suggestions for further reading. All the entries are fully cross-referenced, allowing readers to both make connections and follow their own interests.

**Concepts in Surface Physics** Jul 04 2020 A tutorial treatment of the main concepts of the physics of crystal surfaces. Emphasis is placed on simplified calculations and the corresponding detailed analytical derivations, that are able to throw light on the most important physical mechanisms. More rigorous techniques, which often require a large amount of computer time, are also explained. Wherever possible, the theory is compared to practice, with the experimental methods being described from a theoretical rather than a technical viewpoint. The topics treated include thermodynamic and statistical properties of clean and adsorbate-covered surfaces, atomic structure, vibrational properties, electronic structure, and the theory of physisorption and chemisorption. The whole is rounded off with new exercises.

**Concepts in Thought, Action, and Emotion** Mar 24 2022 In recent years, the idea of a concept has become increasingly central to different areas of philosophy. This collection of original essays presents philosophical perspectives on the link between concepts and language, concepts and experience, concepts and know-how, and concepts and emotion. The essays span a variety of interrelated philosophical domains ranging from epistemology, philosophy of language, philosophy of mind, philosophy of action, and the philosophy of emotions. Among the central questions addressed by the contributors are: What are concepts? What is nonconceptual content? Does perceptual experience have conceptual content? Is conceptual thought language dependent? How do we form new concepts? Does practical knowledge have propositional content? Is practical understanding conceptual (without being propositional)? Do emotions have a representational content and if so, is the representational content conceptual? *Concepts in Thought, Action, and Emotion* advances current debates about concepts and will interest scholars across a broad range of philosophical disciplines.

**Concepts in Action** Sep 29 2022 This open access book is a timely contribution in presenting recent issues, approaches, and results that are not only central to the highly interdisciplinary field of concept research but also particularly important to newly emergent paradigms and challenges. The contributors present a unique, holistic picture for the understanding and use of concepts from a wide range of fields including cognitive science, linguistics, philosophy, psychology, artificial intelligence, and computer science. The chapters focus on three distinct points of view that lie at the core of concept research: representation, learning, and application. The contributions present a combination of theoretical, experimental, computational, and applied methods that appeal to students and researchers working in these fields.

**Theories, Models and Concepts in Ancient History** Feb 20 2022 The first accessible guide for students to show how theories, models and concepts have been applied to ancient history.

**Issues and Concepts in Historical Ecology** Apr 24 2022 This book presents a practical, holistic research framework to help us both understand our past and build an appealing human future.

**Key Concepts in Teaching Primary Mathematics** Jun 22 2019 Covering the key principles and concepts in the teaching and learning of mathematics in primary schools, this text provides trainee and practising teachers with a quick and easy reference to what they need to know for their course, and in the classroom. The entries are arranged alphabetically, and each contains a brief definition, followed by an explanation and discussion, practical examples and annotated suggestions for further reading. Examples of the wide-ranging material include: Anxiety about mathematics; Assessment for Learning; Cognitive conflict; Concept learning; Creativity in mathematics; Differentiation; Equivalence; Explanation; Investigation; Low attainment; Making connections; Meaningful context; Mental calculation; Numeracy; Play as a context for learning mathematics; Problem-solving; Questioning; Talk.

**Concepts of Matter in Science Education** Aug 05 2020 Bringing together a wide collection of ideas, reviews, analyses and new research on particulate and structural concepts of matter, *Concepts of Matter in Science*

Education informs practice from pre-school through graduate school learning and teaching and aims to inspire progress in science education. The expert contributors offer a range of reviews and critical analyses of related literature and in-depth analysis of specific issues, as well as new research. Among the themes covered are learning progressions for teaching a particle model of matter, the mental models of both students and teachers of the particulate nature of matter, educational technology, chemical reactions and chemical phenomena, chemical structure and bonding, quantum chemistry and the history and philosophy of science relating to the particulate nature of matter. The book will benefit a wide audience including classroom practitioners and student teachers at every educational level, teacher educators and researchers in science education. "If gaining the precise meaning in particulate terms of what is solid, what is liquid, and that air is a gas, were that simple, we would not be confronted with another book which, while suggesting new approaches to teaching these topics, confirms they are still very difficult for students to learn". Peter Fensham, Emeritus Professor Monash University, Adjunct Professor QUT (from the foreword to this book)

**Dictionary of Concepts in History** Oct 07 2020 Identifies the development and contemporary use of the significant concepts in history.

**Key Concepts in Curriculum Studies** Jan 10 2021 Offering an accessible entry into curriculum theory, this book defines and contextualizes key concepts for novice and experienced students. Leading scholars in curriculum studies provide short anchor texts that introduce, define, and situate contemporary curriculum theory constructs. Each anchor text is followed by two concise, creative keyword responses that demonstrate varied perspectives and connections, allowing readers to reflect on and engage with the personal relevance of these fundamental concepts. Useful to instructors and scholars alike, this book explains keyword writing as a teaching and learning strategy and invites readers to enter the complicated conversations of contemporary curriculum theory through their own creative, personal responses. Featuring wide-ranging, nuanced, and varied commentary on major relevant themes, as well as discussion questions for students, this book is an essential text for doctoral and masters-level courses in curriculum studies.

**Concepts in Film Theory** Jul 28 2022 Concepts in Film Theory is a continuation of Dudley Andrew's classic, *The Major Film Theories*. In writing now about contemporary theory, Andrew focuses on the key concepts in film study -- perception, representation, signification, narrative structure, adaptation, evaluation, identification, figuration, and interpretation. Beginning with an introductory chapter on the current state of film theory, Andrew goes on to build an overall view of film, presenting his own ideas on each concept, and giving a sense of the interdependence of these concepts. Andrew provides lucid explanations of theories which involve perceptual psychology and structuralism; semiotics and psychoanalysis; hermeneutics and genre study. His clear approach to these often obscure theories enables students to acquire the background they need to enrich their understanding of film -- and of art.

**Basic Ideas and Concepts in Nuclear Physics, An Introductory Approach** Nov 27 2019 This is the second edition of an established textbook on nuclear physics for senior undergraduates and postgraduate students. Professor Heyde has taken the opportunity to make the book more useful for students and teachers by adding an extensive set of problems. To bring the book up to date, he has revised several chapters and added a new chapter on nuclei at the extremes of stability. The book has evolved from a course taught by the author and gives a balanced account of both theoretical and experimental nuclear physics. It is also ideal for researchers wanting an accessible introduction to the subject. Emphasis is given to depth of treatment rather than skimming over topics and there are many diagrams as well as box inserts illustrating particular topics.

**Cases and Concepts in Comparative Politics** Jan 22 2022 Based on O'Neil, Fields, and Share's market-leading textbook and casebook, *Cases and Concepts in Comparative Politics: An Integrated Approach* integrates concepts and cases in one volume. Students get all of the materials in a straightforward, easy-to-use, and cost-effective way.

**Instructional Process and Concepts in Theory and Practice** Dec 21 2021 This book offers an accessible, practical and engaging guide that provides sample instructional activities supported by theoretical background information, with a focus on the nature of the instructional process in relation to several variables. It approaches instructional models, strategies, methods, techniques, tactics and planning from a new perspective and shares effective tips to help readers better understand the instructional process and its theoretical elements. The book

addresses the following questions: What is the nature of the instructional process? What are the classifications of contemporary models and strategies developed within the instructional process? Which groups yield the most effective methods and techniques, and how can they best be practically implemented? What are the instructional tactics teachers need to take into consideration, in which groups are they collected, and which tips can help us employ each tactic? Additionally, readers can adapt the book 's ready-to-use sample activities to their own educational settings. Overall, this book offers an enlightening discussion on contemporary practices related to the teaching process, a broad and holistic theoretical framework, and an ideal reference source for all students and scholars who are interested in the educational sciences.

Fundamental Skills and Concepts in Patient Care Mar 31 2020 Textbook of fundamentals for beginning students. Includes exercises and discussion questions, summaries, and procedure checklists.

Basic Concepts in Modern Mathematics Mar 12 2021 An in-depth overview of some of the most readily applicable essentials of modern mathematics, this concise volume is geared toward undergraduates of all backgrounds as well as future math majors. Topics include the natural numbers; sets, variables, and statement forms; mappings and operations; groups; relations and partitions; integers; and rational and real numbers. 1961 edition.

Basic Concepts of Mathematics and Logic Oct 19 2021 This text emphasizes logic and the theory of sets. Students who take no further courses in the field will find it an excellent resource for developing an appreciation for the nature of mathematics. Others will discover the foundations for future studies — set theory, logic, counting, numbers, functions, and more. 1968 edition. 43 figures. 25 tables.

Key Concepts in Tourism Research Jul 24 2019 This book walks students through the selection and application of research methods within Tourism. Experienced authors introduce the relevant language and theory of key methodologies and then develop them using strategic literature review and the inclusion of international examples which relate directly to tourism. Each concept sets the historical and philosophical context of a method alongside the practical application of the technique and provides:

- authoritative and reliable data
- informative cross-referencing
- detailed discussion of theories and their critics
- suggestions for further reading

The book is a vital resource for all students of tourism, leisure and management.

How to Use Objects Aug 17 2021 While most developers today use object-oriented languages, the full power of objects is available only to those with a deep understanding of the object paradigm. How to Use Objects will help you gain that understanding, so you can write code that works exceptionally well in the real world. Author Holger Gast focuses on the concepts that have repeatedly proven most valuable and shows how to render those concepts in concrete code. Rather than settling for minimal examples, he explores crucial intricacies, clarifies easily misunderstood ideas, and helps you avoid subtle errors that could have disastrous consequences. Gast addresses the technical aspects of working with languages, libraries, and frameworks, as well as the strategic decisions associated with patterns, contracts, design, and system architecture. He explains the roles of individual objects in a complete application, how they react to events and fulfill service requests, and how to transform excellent designs into excellent code. Using practical examples based on Eclipse, he also shows how tools can help you work more efficiently, save you time, and sometimes even write high-quality code for you. Gast writes for developers who have at least basic experience: those who 've finished an introductory programming course, a university computer science curriculum, or a first or second job assignment. Coverage includes

- Understanding what a professionally designed object really looks like
- Writing code that reflects your true intentions—and testing to make sure it does
- Applying language idioms and connotations to write more readable and maintainable code
- Using design-by-contract to write code that consistently does what it 's supposed to do
- Coding and architecting effective event-driven software
- Separating model and view, and avoiding common mistakes
- Mastering strategies and patterns for efficient, flexible design
- Ensuring predictable object collaboration via responsibility-driven design

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Concepts Oct 26 2019 This book offers an overview of theories of the Concept, drawing on the philosopher Hegel and the Soviet psychologist Lev Vygotsky. Concepts are shown to be both units of the mind and units of a cultural formation.

Threshold Concepts in Practice Nov 07 2020 "Threshold Concepts in Practice brings together fifty researchers

from sixteen countries and a wide variety of disciplines to analyse their teaching practice, and the learning experiences of their students, through the lens of the Threshold Concepts Framework. In any discipline, there are certain concepts – the ‘ jewels in the curriculum ’ – whose acquisition is akin to passing through a portal. Learners enter new conceptual (and often affective) territory. Previously inaccessible ways of thinking or practising come into view, without which they cannot progress, and which offer a transformed internal view of subject landscape, or even world view. These conceptual gateways are integrative, exposing the previously hidden interrelatedness of ideas, and are irreversible. However they frequently present troublesome knowledge and are often points at which students become stuck. Difficulty in understanding may leave the learner in a ‘ liminal ’ state of transition, a ‘ betwixt and between ’ space of knowing and not knowing, where understanding can approximate to a form of mimicry. Learners navigating such spaces report a sense of uncertainty, ambiguity, paradox, anxiety, even chaos. The liminal space may equally be one of awe and wonderment. Thresholds research identifies these spaces as key transformational points, crucial to the learner ’ s development but where they can oscillate and remain for considerable periods. These spaces require not only conceptual but ontological and discursive shifts. This volume, the fourth in a tetralogy on Threshold Concepts, discusses student experiences, and the curriculum interventions of their teachers, in a range of disciplines and professional practices including medicine, law, engineering, architecture and military education. Cover image: Detail from ‘ Eve offering the apple to Adam in the Garden of Eden and the serpent ’ c.1520 – 25. Lucas Cranach the Elder (1472 – 1553). Bridgeman Images. All rights reserved.