

## **Learning And Instruction Theory Into Practice 6th Edition**

Instructional-Design Theories and Models, Volume III: Building a Common Knowledge Base is perhaps best described by its new subtitle. Whereas Volume II sought to comprehensively review the proliferating theories and models of instruction of the 1980's and 1990's, Volume III takes on an even more daunting task: starting to build a common knowledge base that underlies and supports the vast array of instructional theories, models and strategies that constitute the field of Instructional Design. Unit I describes the need for a common knowledge base, offers some universal principles of instruction, and addresses the need for variation and detailed guidance when implementing the universal principles. Unit II describes how the universal principles apply to some major approaches to instruction such as direct instruction or problem-based instruction. Unit III describes how to apply the universal principles to some major types of learning such as understandings and skills. Unit IV provides a deeper understanding of instructional theory using the structural layers of a house as its metaphor and discusses instructional theory in the broader context of paradigm change in education.

Higher education is currently undergoing significant changes, and conditions in

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higher education reflect changing financial, social, and political conditions, which affect both faculty and students. Both the rising costs of education and changes from brick-and-mortar to technologically-driven programs often lead to a change from the traditional space-and-time bound institution to ones that offer cost-effective technologically enhanced programs. Online learning has become an integral and expansive factor in higher education?both in distance learning and as an adjunct to the traditional classroom. Understanding Online Instructional Modeling: Theories and Practices focuses on both theoretical and practical aspects of online learning by introducing a variety of online instructional models as well as best practices that help educators and professional trainers to better understand the dynamics of online learning.

In this text, the applications and implications of learning theories are explained and illustrated using examples ranging from primary school instruction to corporate training. A theme of the book is reflective practice, designed to foster a critical and reflective mode of thinking when considering any approach to learning and instruction.

Motivated by the conviction that ICT should be used as an effective tool, this book shows how it can support teaching and learning in the classroom and in the virtual world of school intranet, websites and learning platforms. Practical tasks

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and teaching tips demonstrate how imaginative use of technology can promote creative and enthusiastic teaching, as well as enable new approaches to teaching and learning. It includes descriptions of new technologies and systems and how they can be used, as well as guidance on the software, and activities to engage pupils in their own learning.

"This book examines the four-component instructional design model and cognitive approaches to instructional design and technology"--

For the previous 6 years before publication, Office of Naval Research (ONR) had been conducting a thematically oriented contract research program aimed, in large part, at developing the kind of broad theoretical framework necessary for a workable process interpretation of aptitude, learning, and performance. Originally published in 1980, the papers in this collection are generally addressed to three broad areas that were central to those interests of the ONR Personnel and Training Research Programs. One area is concerned with individual differences information processing, as revealed in simple laboratory or psychometric tests. The second area focuses on the structural aspects of learning and performance, using tools and concepts from semantic memory theory to describe what is learned and how it is learned. And the third area is aimed at the management of instruction: It addresses itself to the kinds of research and instructional designs

required for effective implementation of adaptive instruction.

Celebrating the 20th anniversary of the Learning Research and Development Center (LRDC) at the University of Pittsburgh, these papers present the most current and innovative research on cognition and instruction. Knowing, Learning, and Instruction pays homage to Robert Glaser, founder of the LRDC, and includes debates and discussions about issues of fundamental importance to the cognitive science of instruction.

Tomorrow's Professor is designed to help you prepare for, find, and succeed at academic careers in science and engineering. It looks at the full range of North American four-year academic institutions while featuring 30 vignettes and more than 50 individual stories that bring to life the principles and strategies outlined in the book. Tailored for today's graduate students, postdocs, and beginning professors, Tomorrow's Professor: Presents a no-holds-barred look at the academic enterprise Describes a powerful preparation strategy to make you competitive for academic positions while maintaining your options for worthwhile careers in government and industry Explains how to get the offer you want and start-up package you need to help ensure success in your first critical years on the job Provides essential insights from experienced faculty on how to develop a rewarding academic career and a quality of life that is both balanced and fulfilling

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Bonus material is available for free download at <http://booksupport.wiley.com> At a time when anxiety about academic career opportunities for Ph.D.s in these field is at an all-time high, Tomorrow's Professor provides a much-needed practical approach to career development.

"This open access textbook offers a comprehensive introduction to instruction in all types of library and information settings. Designed for students in library instruction courses, the text is also a resource for new and experienced professionals seeking best practices and selected resources to support their instructional practice. Organized around the backward design approach and written by LIS faculty members with expertise in teaching and learning, this book offers clear guidance on writing learning outcomes, designing assessments, and choosing and implementing instructional strategies, framed by clear and accessible explanations of learning theories. The text takes a critical approach to pedagogy and emphasizes inclusive and accessible instruction. Using a theory into practice approach that will move students from learning to praxis, each chapter includes practical examples, activities, and templates to aid readers in developing their own practice and materials."--Publisher's description.

Unique and stimulating, this book addresses metacognition in both the neglected area of teaching and the more well-established area of learning. It addresses

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domain-general and domain-specific aspects of metacognition, including applications to the particular subjects of reading, speaking, mathematics, and science. This collection spans theory, research and practice related to metacognition in education at all school levels, from elementary through university.

"Learning professionals are finding success applying game-based sensibilities to the development of instruction. This is the first book to show how to design online instruction that leverages the best elements of online games to increase learning, retention, and application. It explains how to match different game strategies to types of learning content for the right learning outcome and discusses how gamification techniques can be used in a variety of settings to improve learning, retention and application of knowledge. Supported by peer-reviewed studies and examples from corporations who have adopted game-based learning successfully, the book illustrates how combining instructional design thinking with game concepts can create engaged and interactive learning experiences across a variety of media, from online to face-to-face"--

An essential resource for understanding the main principles, concepts, and research findings of key theories of learning-especially as they relate to education-this proven text blends theory, research, and applications throughout,

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providing readers with a coherent and unified perspective on learning in educational settings. Key features of the text include: Vignettes at the start of each chapter illustrating some of the principles discussed in the chapter, examples and applications throughout the chapters, and separate sections on instructional applications at the end of each chapter. A new chapter on Self-Regulation (Chapter 9). Core chapters on the neuroscience of learning (Chapter 2), constructivism (Chapter 6), cognitive learning processes (Chapter 7), motivation (Chapter 8), and development (Chapter 10) all related to teaching and learning. Updated sections on learning from technology and electronic media and how these advancements effectively promote learning in students (Chapters 7 & 10) Detailed content-area learning and models of instruction information form coherence and connection between teaching and learning in different content areas, learning principles, and processes (Chapters 2-10). Over 140 new references on the latest theoretical ideas, research findings, and applications in the field.

In this workbook companion, we expand on the strategies presented in the book by supplying need-based practical and specific strategies for implementation of a variety of other subject matters. The book provides contributions from a mix of teacher educators and practitioners. We focus on a specific targeted group, high

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school age adolescents. Our targeted readers are new and experienced teachers developing curricula for this group.

First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do--with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. *How People Learn* examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question

concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

This book constitutes the refereed proceedings of the Third International Conference on Computer Aided Learning and Instruction in Science and Engineering, CALICSE '96, held in San Sebastián, Spain in July 1996. The 42 revised full papers presented in the book were selected from a total of 134 submissions; also included are the abstracts of full papers of four invited talks and 17 poster presentations. The papers are organized in topical sections on learning environments: modelling and design, authoring and development tools and techniques, CAL in distance learning, multimedia and hypermedia in CAL, and applications in science and engineering.

The primary goal of instructional design is improving the quality of learning and instruction. Instructional designers have focused on a number of areas of critical concern and developed a variety of techniques to achieve this goal (Reigeluth, 1983, 1999). Critical areas of concern for those who plan, implement and manage instruction include (a) needs assessment (identifying gaps or deficiencies in knowledge and performance to be addressed in instruction); (b) task analysis (identifying the types of knowledge, skills and attitudes to be developed during

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instruction); (c) learner analysis (determining who the learners are, what they know, relevant differences, etc. ); (d) instructional strategies (developing strategies appropriate for the task and learners involved); and (e) assessment and evaluation (determining how to assess individual progress and evaluate programs). There are many books already in print that treat the general domain of instructional design, as well as texts that target each of these areas of concerns. Why then another book on these issues? There are several answers to this question. Many of the available books treat instruction as a formal process that proceeds according to specific and detailed instructional systems development models (see, for example, Dick, Carey & Carey, 2005). Indeed, the US military has created a series of handbooks specifying details of the various instructional development processes (see Department of Defense, 1999).

Instructional theory describes a variety of methods of instruction (different ways of facilitating human learning and development) and when to use--and not use--each of those methods. It is about how to help people learn better. This volume provides a concise summary of a broad sampling of new methods of instruction currently under development, helps show the interrelationships among these diverse theories, and highlights current issues and trends in instructional design. It is a sequel to *Instructional-Design Theories and Models: An Overview of Their Current Status*, which provided a "snapshot in time" of the status of instructional theory in the early 1980s. Dramatic changes in the nature of instructional theory have occurred since then, partly in response to advances in knowledge about the human brain and learning theory, partly due to shifts in educational philosophies and beliefs, and partly in response to advances in information technologies. These changes have made new methods of instruction not only

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possible, but also necessary in order to take advantage of new instructional capabilities offered by the new technologies. These changes are so dramatic that many argue they constitute a new paradigm of instruction, which requires a new paradigm of instructional theory. In short, there is a clear need for this Volume II of Instructional Design Theories and Models. To attain the broad sampling of methods and theories it presents, and to make this book more useful for practitioners as well as graduate students interested in education and training, this volume contains twice as many chapters, but each half as long as the ones in Volume I, and the descriptions are generally less technical. Several unique features are provided by the editor to help readers understand and compare the theories in this book: \*Chapter 1, which discusses the characteristics of instructional theory and the nature of the new paradigm of instruction, helps the reader identify commonalities across the theories. \*Chapter forewords, which summarize the major elements of the instructional-design theories, are useful for reviewing and comparing theories, as well as for previewing a theory to decide if it is of interest, and for developing a general schema that will make it easier to understand. \*Editor's notes provide additional help in understanding and comparing the theories and the new paradigm of instruction to which they belong. \*Units 2 and 4 have introductory chapters to help readers analyze and understand the theories in those units. This is an essential book for anyone interested in exploring new approaches to fostering human learning and development and thinking creatively about ways to best meet the needs of learners in all kinds of learning contexts. Readers are invited to use Dr. Charles Reigeluth's Web site to comment and to view others' comments about the instructional design theories in this book, as well as other theories. Point your browser to: [www.indiana.edu/~idtheory](http://www.indiana.edu/~idtheory)

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Cognitive load theory uses our knowledge of how people learn, think and solve problems to design instruction. In turn, instructional design is the central activity of classroom teachers, of curriculum designers, and of publishers of textbooks and educational materials, including digital information. Characteristically, the theory is used to generate hypotheses that are tested using randomized controlled trials. Cognitive load theory rests on a base of hundreds of randomized controlled trials testing many thousands of primary and secondary school children as well as adults. That research has been conducted by many research groups from around the world and has resulted in a wide range of novel instructional procedures that have been tested for effectiveness. Advances in Cognitive Load Theory, in describing current research, continues in this tradition. Exploring a wide range of instructional issues dealt with by the theory, it covers all general curriculum areas critical to educational and training institutions and outlines recent extensions to other psycho-educational constructs including motivation and engagement. With contributions from the leading figures from around the world, this book provides a one-stop-shop for the latest in cognitive load theory research and guidelines for how the findings can be applied in practice.

This comprehensive text takes a models approach by presenting separate chapters on individual theorists and perspectives. Within this well-organized structure, Gredler offers meticulously accurate coverage of contemporary learning theories and their application to educational practice—including issues of readiness, motivation, problem-solving, and the social context for learning. Key content include increased emphases on the contributions of neuroscience and of Vygotsky's work.

This book is an expansion and major updating of the highly successful Theories of Learning for

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the Workplace, first published in 2011. It offers fascinating overviews into some of the most important theories of learning and how they are practically applied to organisational or workplace learning. Each chapter is co-authored by an academic researcher and an expert in business or industry, providing practical case studies combined with a thorough analysis of theories and models of learning. Key figures in education, psychology, and cognitive science present a comprehensive range of conceptual perspectives on learning theory, offering a wealth of new insights to support innovative research directions and innovation in learning, training, and teaching for the upcoming post-Covid-19 decades. Containing overviews of theories from Argyris, Decuyper, Dochy & Segers, Engeström, Ericsson, Kolb, Lave & Wenger, Mezirow, Raes & Boon, Schön, Senge, and Van den Bossche, this book discusses: Learning of employees in the digital era Workplace learning High impact learning Informal learning Adult learning Learning & development didactics (L&D) Reflective practice Transformational learning Experiential learning Deliberate practice Communities of practice Team learning Organisational learning Expansive learning Combining theory and practice, this book will be essential reading for all trainee and practising educational psychologists, organisational psychologists, researchers, and students in the field of lifelong learning, educational policy makers, students, researchers, and teachers in vocational and higher education. It will also be of interest to those involved in training trainers and teacher training.

This handy resource describes and illustrates the concepts underlying the “First Principles of Instruction” and illustrates First Principles and their application in a wide variety of instructional products. The book introduces the 3 Course Critique Checklist that can be used to evaluate existing instructional product. It also provides directions for applying this checklist and illustrates

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its use for a variety of different kinds of courses. The Author has also developed a Pebble-in-the-Pond instructional design model with an accompanying e3 ID Checklist. This checklist enables instructional designers to design and develop instructional products that more adequately implement First Principles of Instruction.

Most educators are familiar with Lev Vygotsky's concept of the "zone of proximal development," yet the bulk of Vygotsky's pioneering theory of cognitive development largely remains unknown. This unique volume provides a systematic, authoritative overview of Vygotsky's work and its implications for educational research and practice. Major topics include how children develop higher-order thinking; the influences on cognitive development of teacher-student interactions, the family, and culture; and critical and stable periods in development from infancy through adolescence. Key concepts and research methods are explained in detail, and classroom examples and instructional suggestions are provided.

During the past 30 years, researchers have made exciting progress in the science of learning (i.e., how people learn) and the science of instruction (i.e., how to help people learn). This second edition of the Handbook of Research on Learning and Instruction is intended to provide an overview of these research advances. With chapters written by leading researchers from around the world, this volume examines learning and instruction in a variety of learning environments including in classrooms and out of classrooms, and with a variety of learners including K-16 students and adult learners.

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Contributors to this volume demonstrate how and why educational practice should be guided by research evidence concerning what works in instruction. The Handbook is written at a level that is appropriate for graduate students, researchers, and practitioners interested in an evidence-based approach to learning and instruction. The book is divided into two sections: learning and instruction. The learning section consists of chapters on how people learn in reading, writing, mathematics, science, history, second language, and physical education, as well as how people acquire the knowledge and processes required for critical thinking, studying, self-regulation, and motivation. The instruction section consists of chapters on effective instructional methods—feedback, examples, questioning, tutoring, visualizations, simulations, inquiry, discussion, collaboration, peer modeling, and adaptive instruction. Each chapter in this second edition of the Handbook has been thoroughly revised to integrate recent advances in the field of educational psychology. Two chapters have been added to reflect advances in both helping students develop learning strategies and using technology to individualize instruction. As with the first edition, this updated volume showcases the best research being done on learning and instruction by traversing a broad array of academic domains, learning constructs, and instructional methods. This 2003 book comprehensively covers all major topics of Vygotskian educational theory and its classroom applications. Particular attention is paid to the Vygotskian idea of child development as a consequence rather than premise of learning experiences.

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Such a reversal allows for new interpretations of the relationships between cognitive development and education at different junctions of the human life span. It also opens new perspectives on atypical development, learning disabilities, and assessment of children's learning potential. Classroom applications of Vygotskian theory are discussed in the book. Teacher training and the changing role of a teacher in a sociocultural classroom is discussed in addition to the issues of teaching and learning activities and peer interactions. Relevant research findings from the US, Western Europe, and Russia are brought together to clarify the possible new applications of Vygotskian ideas in different disciplinary areas.

Following Karl Kapp's earlier book *The Gamification of Learning and Instruction*, this Fieldbook provides a step-by-step approach to implementing the concepts from the Gamification book with examples, tips, tricks, and worksheets to help a learning professional or faculty member put the ideas into practice. The Online Workbook, designed largely for students using the original book as a textbook, includes quizzes, worksheets and fill-in-the-blank areas that will help a student to better understand the ideas, concepts and elements of incorporating gamification into learning.

The Third Edition of this popular text continues its in-depth, practical coverage with a focus on learning and instruction that presents the latest psychological and educational models and research. *Psychology of Learning for Instruction, Third Edition*, focuses on the applications and implications of the learning theories. Using excellent examples

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ranging from primary school instruction to corporate training, this text combines the latest thinking and research to give readers the opportunity to explore the individual theories as viewed by the experts. Readers are encouraged to apply "reflective practice," which is designed to foster a critical and reflective mode of thinking when considering any particular approach to learning and instruction. Provides readers with the practical knowledge needed to apply learning theories to instruction. **KEY TOPICS:** This text addresses learning as it relates to behavior, cognition, development, biology, motivation and instruction. **MARKET:** Pre-service and in-service teachers, and educational psychologists.

This is a book about an attempt to change the way math was taught in a particular classroom. Its title plays on our everyday usage of the terms theory and practice. In education, these terms are conventionally treated oppositionally—we have theories about what we should do and we have what teachers actually do do. In this way, theory stands prior, logically and chronologically, to practice; practice inevitably becoming theory's imperfect realization. We seek in this volume, however, to develop a different stance with regard to the relationship between the two. Taking the details of instructional practice as our principle object of study, we explore what role theories of learning might play in illuminating such practices. The book is about actual practices by which teaching is done and how contemporary theories of learning might help us understand those practices. It seeks to provide a foundation for future practice-based

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inquiry in education, by addressing the methodological question: How do we go about studying instructional practice in a principled way?

Instruction is an effort to assist or to shape growth. In devising instruction for the young, one would be ill advised indeed to ignore what is known about growth, its constraints and opportunities. And a theory of instruction - and this book is a series of exercises in such a theory - is in effect a theory of how growth and development are assisted by diverse means.

Instructional-Design Theories and Models, Volume III: Building a Common Knowledge Base is perhaps best described by its new subtitle. Whereas Volume II sought to comprehensively review the proliferating theories and models of instruction of the 1980's and 1990's, Volume III takes on an even more daunting task: starting to build a common knowledge base that underlies and supports the vast array of instructional theories, models and strategies that constitute the field of Instructional Design. Unit I describes the need for a common knowledge base, offers some universal principles of instruction, and addresses the need for variation and detailed guidance when implementing the universal principles. Unit II describes how the universal principles apply to some major approaches to instruction such as direct instruction or problem-based instruction. Unit III describes how to apply the universal principles to some major types of learning such as understandings and skills. Unit IV provides a deeper understanding of instructional theory using the structural layers of a house as its

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metaphor and discusses instructional theory in the broader context of paradigm change in education.

Children in today's world are inundated with information about who to be, what to do and how to live. But what if there was a way to teach children how to manage priorities, focus on goals and be a positive influence on the world around them? The Leader in Me is that programme. It's based on a hugely successful initiative carried out at the A.B. Combs Elementary School in North Carolina. To hear the parents of A. B Combs talk about the school is to be amazed. In 1999, the school debuted a programme that taught The 7 Habits of Highly Effective People to a pilot group of students. The parents reported an incredible change in their children, who blossomed under the programme. By the end of the following year the average end-of-grade scores had leapt from 84 to 94. This book will launch the message onto a much larger platform. Stephen R. Covey takes the 7 Habits, that have already changed the lives of millions of people, and shows how children can use them as they develop. Those habits -- be proactive, begin with the end in mind, put first things first, think win-win, seek to understand and then to be understood, synergize, and sharpen the saw -- are critical skills to learn at a young age and bring incredible results, proving that it's never too early to teach someone how to live well.

Whilst most teachers are skilled in providing opportunities for the progression of children's learning, it is often without fully understanding the theory behind it. With

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greater insight into what is currently known about the processes of learning and about individual learning preferences, teachers are better equipped to provide effective experiences and situations which are more likely to lead to lasting attainment. Now fully updated, *Ways of Learning* seeks to provide an understanding of the ways in which learning takes place, which teachers can make use of in their planning and teaching, including: An overview of learning Behaviourism and the beginning of theory Cognitive and constructivist learning Multiple intelligences Learning styles Difficulties with learning The influence of neuro-psychology Relating theory to practice The third edition of this book includes developments in areas covered in the first and second editions, as well as expanding on certain topics to bring about a wider perspective; most noticeably a newly updated and fully expanded chapter on the influence of neuro-educational research. The book also reflects changes in government policy and is closely related to new developments in practice. Written for trainee teachers, serving teachers, and others interested in learning for various reasons, *Ways of Learning* serves as a valuable introduction for students setting out on higher degree work who are in need of an introduction to the topic.

Snelbecker displays a deep concern, which I share, about the need to develop ways to build theories and conceptualizations from the study and practice of teaching. His excellent work is an attempt to relate learning theories, instructional theories, and psychoeducational design to one another....The field of learning and instruction needs

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this kind of book and others like it to communicate the practical value and the limitations of its theories and to comment upon the current state of the field...Snelbecker's book is aptly timed...

Companion volume to the award-winning best seller *Instructional Design Theories and Models*, this book serves as a concrete introduction to instructional design for curriculum developers, teachers and teacher trainers, and students. Eight major theorists translate their works and theories into sets of instructional prescriptions; corresponding model lessons provide step-by-step illustrations of these theories. *Instructional Theories in Action* features: \*overviews of the most important prescriptions and corresponding sample lesson plans written by the original theorists; \*practical, concrete approaches to presenting the major strategies and principles; \*model lessons focusing on the same objectives to facilitate comparisons of the theories; \*numbered comments that identify which instructional prescription is being implemented at each point of the sample lessons; \*chapter introductions, footnotes, and student study questions, and \*clear identification and cross referencing of commonalities that are often masked by varying terminology.

Over the last 25 years, cognitive load theory has become one of the world's leading theories of instructional design. It is heavily researched by many educational and psychological researchers and is familiar to most practicing instructional designers, especially designers using computer and related technologies. The theory can be

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divided into two aspects that closely inter-relate and influence each other: human cognitive architecture and the instructional designs and prescriptions that flow from that architecture. The cognitive architecture is based on biological evolution. The resulting description of human cognitive architecture is novel and accordingly, the instructional designs that flow from the architecture also are novel. All instructional procedures are routinely tested using randomized, controlled experiments. Roughly 1/3 of the book will be devoted to cognitive architecture and its evolutionary base with 2/3 devoted to the instructional implications that follow, including technology-based instruction.

Researchers, teachers and instructional designers need the book because of the explosion of interest in cognitive load theory over the last few years. The theory is represented in countless journal articles but a detailed, modern overview presenting the theory and its implications in one location is not available.

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