



## Advances in Instructional Psychology: Educational Design and Cognitive Science 5: Educational Design and Cognitive Science (Hardback)

By -

Lawrence Erlbaum Associates Inc, United States, 2000. Hardback. Book Condition: New. 237 x 157 mm. Language: English . Brand New Book. Investigators have moved back and forth between design efforts and basic studies in cognition to improve both application and fundamental knowledge. This volume s theme is this interaction between practice and science with the opportunity for reflecting on findings in order to understand them and suggesting improved forms of application and their underlying explanation. This is seen in various arenas including theory-based computer-assisted instruction for teaching mathematics, the design of communities of learning in elementary schools, teaching in the context of problem-solving situations and reasoning with models, self-explanation as a highly effective learning activity, conceptual change in medical training and health education, and workplace training in electronic troubleshooting. The results of extensive long-term experience and analysis in each of these areas are insightfully reported by the well-known contributors to this volume. Special features of this fifth edition include: \* The work of eminent cognitive scientists in the design and evaluation of educational and training environments to increase current understanding of learning and development, as this understanding is applied to innovative instructional programs and teaching methods. \* A description of...

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