

# Contents

Preface.....	VII
<b>Part 1: Approaches to Knowledge Acquisition from Text and Pictures.....</b>	<b>1</b>
<b>1 Problems in Knowledge Acquisition from Text and Pictures.....</b>	<b>3</b>
Sylvie Molitor, Steffen-Peter Ballstaedt & Heinz Mandl	
<b>2 Presentation of Information by Media and its Effect on Mental Models.....</b>	<b>37</b>
Norbert M. Seel & Peter Strittmatter	
<b>3 Knowledge from Text and Pictures: A Neuro- psychological Perspective.....</b>	<b>59</b>
Martha J. Farah	
<b>4 Learning from Texts and Pictures: Reflections on a Meta-Level.....</b>	<b>73</b>
Gavriel Salomon	
<b>5 A Transfer-Appropriate-Processing Perspective of Pictures in Prose.....</b>	<b>83</b>
Joel R. Levin	
<b>6 Understanding Visual and Verbal Messages.....</b>	<b>101</b>
Patricia Baggett	
<b>7 The Design and Use of Instructional Graphics.....</b>	<b>125</b>
William Winn	
<b>8 Towards a Graphic Ecology.....</b>	<b>145</b>
Michael Macdonald-Ross	

<b>Part 2: Research on Knowledge Acquisition from Text and Pictures.....</b>	<b>155</b>
<b>9 When Good Pictures Fail: An Information-Processing Approach to the Effect of Illustrations.....</b>	<b>157</b>
Bernd Weidenmann	
<b>10 Understanding Machines from Text and Diagrams.....</b>	<b>171</b>
Mary Hegarty & Marcel Adam Just	
<b>11 Visualization by Pictorial Analogies in Understanding Expository Text.....</b>	<b>195</b>
Issing, L.J., Hannemann, J. & J. & Haack, J.	
<b>12 Two Functions of Diagrams in Problem Solving by Analogy.....</b>	<b>215</b>
Mary L. Gick	
<b>13 Developmental Studies of Text-Picture Interactions in the Perception of Animated Cartoons with Text.....</b>	<b>233</b>
Géry D'Ydewalle & Johan Van Rensbergen	
<b>14 The Processing of Texts Describing Spatial Configurations.....</b>	<b>249</b>
Guy Denhière & Michel Denis	
<b>15 Trends in the Delayed Use of Information from an Illustrated Text.....</b>	<b>263</b>
Joan Peeck	
<b>16 Intercultural Experiments as a Research Tool in the Study of Cognitive Skill Acquisition: Japanese Character Recognition and Eye Movements in Non-Japanese Subjects.....</b>	<b>279</b>
Kazuo Koga & Rudolf Groner	

<b>Author Index.....</b>	<b>293</b>
<b>Subject Index.....</b>	<b>309</b>