

Contents

Adventures and Advances in Instructional Design Theory and Practice . . .	1
J. Michael Spector	
Coming at Design from a Different Angle: Functional Design	15
Andrew S. Gibbons and P. Clint Rogers	
Robust Designs for Scalability	27
Jody Clarke and Chris Dede	
Externally Modeling Mental Models	49
David H. Jonassen	
Applying a Critical and Humanizing Framework of Instructional Technologies to Educational Practice	75
Johannes Strobel and Heather Tillberg-Webb	
When a Peer Group Isn't Needed: Effective Online Learning in an Individual Mentoring Model	95
Alyssa Friend Wise, Chandra Hawley Orrill, Thomas M. Duffy, Rodrigo del Valle, and Jamie R. Kirkley	
Linking the POV-ing Theory to Multimedia Representations of Teaching, Learning, Research in the Age of Social Networking	119
Ricki Goldman and Chaoyan Dong	
Creating Shared Visions of the Future for K-12 Education: A Systemic Transformation Process for a Learner-Centered Paradigm	131
Charles M. Reigeluth, Alison Carr-Chellman, Brian Beabout, and William Watson	
Technology as a Change Agent in the Classroom	151
Gary R. Morrison, Steven M. Ross, and Deborah L. Lowther	

**Using Activity Theory to Evaluate and Improve K-12 School
and University Partnerships** 175
Lisa C. Yamagata-Lynch and Sharon Smaldino

Reflections: Variations on a Theme 205
Marcy P. Driscoll

**Reflections: Variation on a Theme: Part 2 Is This Jazz,
or Are We Singing the Blues?** 215
Wellesley R. Foshay

Author Index 219

Subject Index 225