

## Contents

	List of illustrations	ix
	Preface	xi
	Acknowledgements	xv
1	Introduction	1
	A new reality 2	
	Myths 5	
	Conclusion 7	
<b>^</b> A	RT I	
Γh	ne conceptual framework	9
2	Theoretical foundation	11
	Philosophical perspective 11	
	A transactional view	
	Theoretical concepts	
	Principles	
	Conclusion 20	
3	Community of inquiry	22
	The learning community 23	
	Computer conferencing	
	Text-based communication	
	A conceptual framework 27	
	Cognitive presence	
	Social presence	
	Teaching presence	
	Ÿ.	

	Indicators	
	Conclusion 31	
4	The technology of e-learning	22
•	<u>-</u> ,	32
	Defining educational technology 33	
	Generations of distance education technology 34	
	First generation	
	Second generation	
	Third generation	
	Fourth generation	
	The net and distance education 39	
	Education technology and interaction 41 Teacher-student interaction	
	Student-student interaction	
	Student-content interaction	
	Teacher-content interaction	
•	Teacher–teacher interaction	
	Content-content interaction	
	The semantic network and e-learning 46	
	Conclusion 47	
5	Social presence	48
	A non-verbal community 48	
	Categories of social presence 50	
	Affective responses	
	Open communication	
	Cohesive responses	
	Practical implications 53	
	Conclusion 54	
6	Cognitive presence	55
	Conceptual background 56	
	Critical thinking	
	Practical inquiry	
	Cognitive presence descriptors 60	
	Conclusion 63	
7	Teaching presence	64

Roles and functions 65

	Direct instruction 70 Conclusion 71	
	RT II oplying the framework	73
8	Guidelines for practice	75
	Learning activities 76 Teaching–learning guidelines Design and organization Facilitating discourse Direct instruction Conclusion 90	
9	Assessment and evaluation	92
	Assessing e-learning 92 Functions of assessment Assessing quality Assessing participation Assessment activities 98 Database of learning products Authenticating assessment Student participation Course evaluation 101 Conclusion 104	
10	Organizational issues  Strategic innovation 106 Policy development Infrastructure Leadership 112 Conclusion 113	105
11	Future directions	115
	Properties of e-learning 115	

Design and organization 67 Facilitating discourse 68

Communities of inquiry 117

## viii Contents

References Index

Developments on the Net 118	
Volume	
Velocity	
Variety	
Value	
Conclusion 122	
Appendix A	125

Value		
Conclusion	122	
Appendix A		125
Appendix B		129

153 161