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| Nota di contenuto       | Cover; Title Page; Copyright; Contents; About the Authors; Preface; Part I Producing a Proposal; Chapter 1 Introduction; 1.1 The concept of research; 1.1.1 Research: a careful search/investigation; 1.1.2 Research: contribution to knowledge; 1.1.3 A learning process; 1.1.4 Contextual factors affecting research; 1.2 Classifications of research; 1.2.1 Pure and applied research; 1.2.2 Quantitative and qualitative research; 1.2.3 Other categories of research; 1.3 Theories and paradigms; 1.3.1 Development of knowledge; 1.3.2 Testing a theory; 1.3.3 A paradigm; 1.3.4 Positivism; 1.3.5 Interpretivism; 1.3.6 Models and hypotheses; 1.4 Research styles; 1.4.1 Action research; 1.4.2 Ethnographic research; 1.4.3 Surveys; 1.4.4 Case studies; 1.4.5 Experiments; 1.5 Quantitative and qualitative approaches; 1.5.1 Quantitative approaches; 1.5.2 Qualitative approaches; 1.5.3 Triangulated studies; 1.5.4 Data sources; 1.6 Where to begin; 1.7 Summary; Chapter 2 Topic for Study; 2.1 Selection of a topic; 2.1.1 Resources; 2.1.2 Subject selection; 2.1.3 Choosing a topic; 2.1.4 Evaluating alternatives; 2.1.5 Refining a topic; 2.2 Writing the proposal; 2.2.1 Aim; 2.2.2 Proposition; 2.2.3 Objectives; 2.2.4 Hypotheses; 2.2.5 Methodology and methods; 2.2.6 Programme; 2.2.7 Deliverables and industrial or practitioner support; 2.3 Summary; |

Part II Executing the Research; Chapter 3 Initial Research; 3.1 The research process; 3.1.1 Initial phase; 3.1.2 Data and information; 3.1.3 Dynamic process; 3.2 Initial search; 3.2.1 Definitions and assumptions; 3.2.2 Theory and literature review; 3.2.3 Analyzing data from a search; 3.3 Literature-based discovery; 3.4 Assembling the theoretical framework; 3.5 Philosophy and methodology; 3.5.1 Ontology and epistemology; 3.5.2 Positivism and phenomenology 3.5.3 Constructivism and reductionism 3.5.4 Realism; 3.5.5 Fuzzy thinking; 3.6 Theoretical models and constructs; 3.6.1 What is modelling?; 3.6.2 Theoretical model; 3.6.3 Constructs; 3.7 Proper referencing; 3.8 Summary; Chapter 4 Approaches to Empirical Work; 4.1 Role of experience; 4.1.1 When does research begin?; 4.1.2 What is experience?; 4.2 Research design; 4.2.1 Context; 4.2.2 Empiricism and verification; 4.2.3 Deduction and induction; 4.2.4 Case study; 4.2.5 Ethnography; 4.2.6 Experiments and quasi-experiments; 4.2.7 Variance and errors; 4.3 Qualitative approaches 4.3.1 When are qualitative approaches employed? 4.3.2 Development of theory from data; 4.3.3 Analysis of data; 4.4 Quantitative approaches; 4.4.1 When are quantitative approaches employed?; 4.4.2 Sources of data; 4.4.3 Experimental control; 4.5 Experimental design (including experiments and quasi-experiments); 4.5.1 Experiments and quasi-experiments; 4.5.2 Variables; 4.5.3 Replication; 4.5.4 Between-subjects design (simple randomised experiments); 4.5.5 Between-subjects design (matched randomised groups); 4.5.6 Within-subject design (repeated measure design); 4.5.7 Factorial experiments 4.6 Case study research

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## Sommario/riassunto

This new edition of a valued guide for construction students will: instill rigor into your problem solving and the production of reports and publications is one of the few books to provide guidance on research formulation, methodologies, and methods specifically for construction students has been extended in scope to cover many areas of debate, e. g. research ethics, and quantitative & qualitative research

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