ARCHITECTURAL RESEARCH METHODS
ARCHITECTURAL RESEARCH METHODS

SECOND EDITION

LINDA N. GROAT AND DAVID WANG

WILEY
## Contents

Acknowledgments vii

**PART I  THE DOMAIN OF ARCHITECTURAL RESEARCH** 1

Chapter 1  The Scope of This Book 3  
*Linda Groat*

Chapter 2  Does Design Equal Research? 21  
*Linda Groat and David Wang*

Chapter 3  Systems of Inquiry and Standards of Research Quality 63  
*Linda Groat*

Chapter 4  What’s Your Purpose? From Theory Building to Design Application 101  
*David Wang and Linda Groat*

Chapter 5  What’s Your Question? Literature Review and Research Design 141  
*David Wang and Linda Groat*
PART II SEVEN RESEARCH STRATEGIES 171

Chapter 6 Historical Research 173
David Wang

Chapter 7 Qualitative Research 215
Linda Groat

Chapter 8 Correlational Research 263
Linda Groat

Chapter 9 Experimental and Quasi-Experimental Research 313
Linda Groat

Chapter 10 Simulation Research 349
David Wang

Chapter 11 Logical Argumentation 379
David Wang

Chapter 12 Case Studies and Combined Strategies 415
Linda Groat

Author Index 453

Subject Index 461
In the years since the initial publication of *Architectural Research Methods*, I've been immensely gratified by the interest of readers whose comments, suggestions, and questions have inspired this second edition. In this regard, I am indebted to many people: colleagues who took the time to answer my queries about what changes might best enhance the new edition, or recommended and/or contributed specific research exemplars; a host of unnamed readers who passed on suggestions through an informal grapevine of commentary; and most especially my students over the years whose insightful questions have challenged me to rethink and reframe the conceptual premises, analyses, and diagrammatic clarity of some of the material in the first edition.

David Wang, my co-author, has remained a steadfast partner whose insights have been absolutely essential to the fruitful pulls and tugs of this collaborative process. I am deeply appreciative of the encouragement and ongoing support from Wiley for this new edition, and especially the guidance of Paul Drougas and Mike New.

I am deeply grateful to the University of Michigan for its continuing institutional support for this project. Funding from the Horace Rackham School of Graduate Studies, Taubman College's Program in Architecture, and the Office of the Vice-President for Research has provided support for research assistants Kush Patel and Justin Ferguson. Kush and Justin have been invaluable in tracking down, organizing, and maintaining the myriad resources and files inherent in a project of this scope, not to mention keeping the inevitable glitches to a minimum.

LINDA GROAT
It is a privilege to issue this second edition of *Architectural Research Methods*. In writing it, I was struck by just how much has progressed in this arena even since the first issue of this book a decade ago. I am once again grateful to work with Linda Groat, from whom I continue to learn. Thanks also to Paul Drougas and Mike New at Wiley, who understood the time it takes to update a manuscript such as this one. Many new contributors made this second edition possible; I hope all their names and affiliations are noted in the pages of this book; a heartfelt thanks to them all.

DAVID WANG