



## Encyclopedia of Research Design

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Research design can be daunting for all types of researchers. At its heart it might be described as a formalized approach toward problem solving, thinking, and acquiring knowledge—the success of which depends upon clearly defined objectives and appropriate choice of statistical tools, tests, and analysis to meet a project's objectives.

Comprising more than 500 entries, the **Encyclopedia of Research Design** explains how to make decisions about research design, undertake research projects in an ethical manner, interpret and draw valid inferences from data, and evaluate experiment design strategies and results. Two additional features carry this encyclopedia far above other works in the field: bibliographic entries devoted to significant articles in the history of research design and reviews of contemporary tools, such as software and statistical procedures, used to analyze results.

## Key Features

- Covers the spectrum of research design strategies, from material presented in introductory classes to topics necessary in graduate research
- Addresses cross- and multidisciplinary research needs, with many examples drawn from the social and behavioral sciences, neurosciences, and biomedical and life sciences
- Provides summaries of advantages and disadvantages of often-used strategies
- Uses hundreds of sample tables, figures, and equations based on real-life cases

## Key Themes

Descriptive Statistics

Distributions

Graphical Displays of Data

Hypothesis Testing

Important Publications

Inferential Statistics

Item Response Theory

Mathematical Concepts

Measurement Concepts

Organizations

Publishing

Qualitative Research

Reliability of Scores

Research Design Concepts

Research Designs

Research Ethics

Research Process

Research Validity Issues

Sampling

Scaling

Software Applications

Statistical Assumptions

Statistical Concepts

Statistical Procedures

Statistical Tests

Theories, Laws, and Principles

Types of Variables

Validity of Scores

The **Encyclopedia of Research Design** is the perfect instrument for new learners as well as experienced researchers to explore both the original and newest branches of the field.

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