

Chapter 5: quantitative research

- ★ What is research design?
 - A research design is to plan to attempt to find the answers to the researchers questions and/or to test research hypotheses that were formulated
 - Includes:
 - How research sample will be selected
 - How and when variables will be measured
 - How data will be analyzed
 - How findings will be disseminated
- ★ Different categorizations of research design
- ★ Cross-sectional research design
 - Variables are measured just one time and as simultaneously as possible
 - Conclusions may include a description of the distribution of certain variables
 - May answer questions or hypotheses regarding the relationship between variables
- ★ Pre test post test research design
 - Variables are measured 2 times, generally before and after some event
 - The event is usually an intervention that is offered to the client or some life experiences to which the client is exposed
 - Allows us to measure the amount of change that occurred between the 1st and 2nd measurement
- ★ Longitudinal research design
 - Variables are measured more than 2 times, usually many more, and over a long period of time
 - Longitudinal studies are designed to identify how much change occurred, and what phenomenon were associated with change
 - Types of longitudinal designs
 - Trend studies
 - Cohort studies
 - Panel studies
- ★ Exploratory research designs
 - Used when a researcher is exploring a subject area that is relatively new and unstudied
 - They can be qualitative or quantitative and often use mixture of both methods
 - Designed to begin the process of knowledge building about research problem or question
- ★ Descriptive research designs
 - Used to describe situations and events
 - In quantitative descriptive studies, the goal is usually to describe and measure relevant variables
 - In qualitative descriptive studies, the goal is usually to describe the variety of ways people experience or perceive something
- ★ Exploratory research designs
 - Have the potential to provide more definitive answers as to what might cause a

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Chao Zhang



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