

## CHAPTER 12: CAUSAL-COMPARATIVE RESEARCH

### CAUSAL AND COMPARATIVE RESEARCH II: DEFINITION AND PURPOSE

- -Causal-comparative research is sometimes treated as a type of descriptive research since it describes conditions that already exist.
  - -Causal comparative research attempts to determine reasons, or causes, for the existing condition
  - -In causal-comparative or „ex-post facto, research the researcher attempts to determine the cause, or reason, for preexisting differences in groups of individuals
    - -Such research is referred to as ex post facto (Latin for “after the fact”) since both the effect and the alleged cause have already occurred and must be studied in retrospect
  - -The basic causal-comparative approach involves starting with an effect and seeking possible causes
  - -The basic approach starts with cause and investigates its effects on some variable
  - -The basic approach is sometimes referred to as retrospective causal-comparative research (since it starts with effects and investigates causes)
  - -The variation as prospective causal-comparative research (since it starts with causes and investigates effects)
  - -Retrospective causal-comparative studies are far more common in educational research
  - -Causal-comparative studies attempt to identify cause-effect relationships; correlational studies do not
  - -Causal-comparative studies typically involve two (or more) groups and one independent variable, whereas correlational studies typically involve two or more variables and one group
  - -Causal-comparative studies involve comparison, correlational studies involve relationship
- Neither method provides researchers with true experimental data
- -Causal-comparative and experimental research both attempt to establish cause-effect relationships and both involve comparisons.
  - -Experimental study the researcher selects a random sample and then randomly divides the sample into two or more groups
- Groups are assigned to the treatments and the study is carried out
- -Individuals are not randomly assigned to treatment groups because they already were selected into groups before the research began
  - -Experimental research the independent variable is manipulated by the researcher, whereas in causal-comparative research, the groups are already formed and already different on the independent variable
  - -Independent variables in causal-comparative cannot be manipulated, should not be manipulated, or simply are not manipulated but could be
  - -Not possible to manipulate organismic variables such as age or gender
  - -Ethical considerations often prevent manipulation of a variable that could be manipulated but should not be
- If the nature of the independent variable is such that it may cause physical or mental harm to participants, the ethics of research dictate that it should not be manipulated

# Comparative Research Paper Examples

**Sven Hesse**



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web identify and describe properties of matter including flexibility strength transparency hardness water resistance size color weight and texture identify and describe three phases of matter solid liquid and gas identify and describe the particles that make up a solid liquid and gas ie particles are close together in a solid

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2 band structure as in c and b but projected onto the zeronium orbitals with s p and d symmetries the yellow rectangle highlights the bonding combination of the ni 3 d 3 z 2 r 3 and z s orbitals at k vectors with k z 0

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web jan 1 2014 changes in structure and resulting properties are caused by changes in conditions distinctions between states are frequently described in terms of differences in the interactions of constituent atoms or molecules of a substance and this in general also characterizes the properties in the states

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web figure 3 1 1 3 1 1 matter is usually classified into three classical states with plasma sometimes added as a fourth state from left to right quartz solid water liquid nitrogen dioxide gas the state a given substance exhibits is also a physical property

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extensive property the mass and volume of a substance are examples of extensive properties for instance a gallon of milk has  
a larger mass and volume than a cup of milk