

EXPERIMENTAL DESIGN

Experimental design refers to the systematic approach and structure employed in conducting scientific experiments to investigate cause-and-effect relationships between variables.

DEFINITION

Experimental design involves the careful manipulation of an independent variable while controlling and measuring other variables to assess their impact on the dependent variable. It is considered better than observational design when it comes to inferring cause-and-effect.

TYPES

- **Quasi-experimental design** includes some control over variables but falls short of the random assignment of participants to conditions.
- **True experimental design** incorporates random assignment of participants to different conditions, allowing for stronger causal inferences to be made.

System Of Experimental Design

Perry D. Haaland



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System of Experimental Design Genichi Taguchi,1987 **System of Experimental Design** Gen'ichi Taguchi,1991

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