

Chapter 14

Controlled Environments: Experimental Research

In the previous chapter we outlined the three basic types of research design (experimental, field, and observational), along with the relative strengths and weaknesses of each. In this and the following chapters, we will look at each of the three types more closely. In each chapter, we'll first present some typical research designs, and then we will look at and evaluate some actual research studies.

Typical Experimental Designs

We will first have to introduce some shorthand notation to clarify and speed up our presentation. This notation is outlined in Table 14-1. Familiarize yourself with this notation and proceed.

Case Studies and Single Group Designs

The first two designs we will discuss are not strong, and in fact are not classified as experimental designs by some writers (cf. Campbell and Stanley, 1963), as they have significant threats to internal and external validity. As Table 14-2 shows, there are very few threats to validity for which these designs actually provide benefits, other than those provided by random sampling and single-time measurement.

These designs are extremely weak and should be avoided, as using them is likely to lead to

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