

XVII. PROCESS ANALYSIS AND SYNTHESIS

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RESEARCH OBJECTIVES

The research of this group for the past several years has been concerned with a number of basic problems aimed at extending current concepts in communication theory. Theoretical concepts are being developed, and experimental verification is being sought for some of the "subjective" aspects of the communication problem. In general terms, these are problems that are routinely solved by the human brain. Without in any way implying an attempt to understand the functioning of the brain, the research seeks to establish explanations for some of these subjective effects. The theory of symmetry has been used as a basic tool in establishing orders in certain classes of subjectivity. Examples of the kinds of problem that are being studied are the characterization and transformation of style in music and paintings.

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