STRUCTURAL ANALYSIS THE ANALYTIC TEMPENCY IN SCIENCE HAS RESULTED IN ATTEMPTS

TO ANALYZE REALITY INTO THE SMALLEST POSSIBLE COMPONENTS AND WITHIN THE SIMPLEST

POSSIBLE ANALYTIC FRAMES. THE SIMPLEST ANALYTIC FRAME THAT CAN STILL INFORM US

ABOUT REALITY IS ONE IN WHICH WE CONSIDER SOME SET OF DEPENDENT VARIABLES / WITH

A RELATED SET OF INDEPENDENT VARIABLES AND TRY TO EXPLICATE THE FUNCTIONAL

RELATIONSHIP AMONG THE VARIABLES WITHIN THAT FRAME. THIS STRUCTURALLY

DICHOTOMOUS, INDEPENDENT DEPENDENT, ANALYTIC FRAME HAS DOMINATED MUCH

OF THE RESEARCH AND STATISTICAL METHODOLOGY OF THE SCIENCES - ESPECIALLY

OF THE SOCIAL AND BEHAVIORAL SCIENCES.

T IS ASSUMED, SOMETIMES IMPLICITLY, SOMETIMES EXPLICITLY, THAT THE TRUE COMPLEXITY OF THE STRUCTURE OF REALITY CAN BE APPROACHED A PIECE AT A TIME BY THE ACCUMULATION OF RESEARCHED RELIGIONSHIPS WITHIN THESE SIMPLE DICHOTOMOUS ANALYTIC FRAMES — THE RECATIONSHIPS PRESUMBLY BEING JOINED TOSETHER IN SOME KIND OF NETWORK WHOSE STRUCTURE MATCHES THE STRUCTURAL COMPLEXITY OF THE AREA UNDER INVESTIGATION. REALITY, UNFORTUNATELY, IS NOT NECESSARILY AMENABLE TO SUCH DISSECTIVE ANALYSIS. MANY INTERESTING AND IMPORTANT CHARACTERISTICS OF BOTH THEORETICAL AND PRACTICAL SIGNIFICANCE ARE SIMPLY IMPOSSIBLE TO MODEL OF ANALYSE WITHIN A DICHOTOMOUS FRAME OF ANALYSIS - THEY SIMPLY DISAPPEAR OR REMAIN INEXPLICABLE WHEN SUCH A FRAME IS APPLIED. HE UBIQUITOUS FEEDBACK LOOP IS PROBABLY THE MOST WELL KNOWN SUCH CHARACTERISTIC.

HESE NON-DICHOTOMOUS CHARACTERISTICS CAN BE MODELED IN TERMS OF HETWORKS OF REVATIONSHIPS - NETWORKS OF THE SAME TYPE AS ACCUMULATED BY SUCCESSIVE RECATED DICHOTOMOUS FRAME AMALYSES. HE AMALYSIS OF SUCH MONI-DICHOTOMOUS CHARACTERISTICS, HOWEVER, CAN ONLY PROCEED IN TERMS OF ANALYTIC FRAMES THAT INCLUDE THE NETWORK STRUCTURE AS PART OF THE FRAME, - THE PROBLEM IS THAT TO APPLY AN ANALYTIC FRAME THAT IS INTRINSIALLY WILL FORCE THE INCAPABLE OF MODELING SALIENT NETWORK CHARACTERISTICS! - OVERLY SIMPLE MODEL OF THE RECATIONSHIPS WITHIN THAT FRAME TO ACCOUNT NOT ONLY FOR THAT PART OF THE NETWORK TO WHICH THE FRAME IS APPROPRIATE, BUT FOR ALL THE BROADER NETWORK CHARACTERISTICS WHICH AFFECT THE SECTION UNDER ANALYSIS AS WELL. TRYING TO USE SUCH ON INAPPROPRIATE FRAME TO DO THE IMPOSSIBLE WILL THEN GENERALLY RESULT IN THE CONSEQUENT ALLAUSIS BEING INVALID FOR THUS, NON-DICHOTOMOUS CHARACTERISTICS CAN BE STUDIED ANY PART OF THE METCUORK. IN TERMS OF NETWORKS OR SYSTEMS OF RECATIONSHIPS (EQUATIONS), BUT ONLY IF THESE SYSTEMS OF EQUATIONS ARE STUDIED AS SYSTEMS, WITH ALL THEIR STRUCTURE, AND HOT A

PIECE AT A TIME.

\*\*NOTE THAT THIS MAKES THE FRAME OF ANALYSIS PART OF THE TO-BE-TESTED STRUCTURE OF HYPOTHESES, INSTEAD OF MERELY

A FRISELY NEUTRAL PRAME WITHIN WHICH HYPOTHESES ARE STATED. TESTENG THE STRUCTURAL FRAME PART OF SUCH HYPOTHESES

A FRISELY NEUTRAL PRAME WITHIN WHICH HYPOTHESES OF FIT TESTS AS COMPARED TO PARAMETER TESTS CUITAIN A GIVEN FRAME

15 ONE OF THE BROADER SIGNIFICANCES OF GOODNESS OF FIT TESTS AS COMPARED TO PARAMETER TESTS CUITAIN A GIVEN FRAME