

Notes on the preface to Structuring Complex Systems by John Warfield.

Page one (1)

-- The name of the method and knowledge area is "Structural Modeling."

-- Two types of structural models: basic structural models and interpretive structural models.

-- Structural models support the rational analysis and synthesis of complex systems.

-- Use a computer to perform the mathematical tasks.

Page two (2)

-- Method for interpretive structural models that can be put in correspondence with a digraph.

-- Model building as a group activity.

-- Create multiple groups and models with model aggregation techniques.

-- A model may serve many purposes as well as have many end points.

-- Monograph written for people with mathematical sophistication.

Page three (3)

-- Graphical representation of a single contextual relation per model.

-- Partnership of developer and the computer.

-- A system is defined as a complex of entities S , with interactions R .

-- The contextual relation is a phrase in a colloquial language.

-- One contextual relation per model.

-- Create model levels with a permutation matrix.

-- Condense a matrix.

-- Cycles and maximal geodetic cycle set.

Page four (4)

-- Inclusion relation to construct a hierarchical digraph.

-- Multiple contextual relations, require multiple models (matrices).

-- Shows how the theory can be applied even when one of the contextual relations is not transitive.