

I. CONCEPTUALIZATION

CONCEPTUAL MODEL



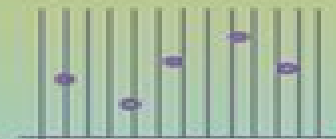
OBSERVATION

EXPERIMENTAL DESIGN

MODEL REFINEMENT

TRANSLATION

INTERPRETATION



EXPERIMENTAL DATA

$$\frac{dx_i}{dt} = f(x, k, t)$$
$$x_i(t = 0) = x_{i0}$$

MATHEMATICAL MODEL

II. MATHEMATICAL FORMALIZATION

CALIBRATION

VALIDATION

QUALITY ASSESSMENT

SIMULATION



SYSTEM MANAGEMENT

OPTIMIZATION

$$\frac{dx_i}{dt} = f(x, k', t)$$
$$x_i(t = 0) = x_{i0}'$$

OPTIMIZED MODEL

III. MANAGEMENT AND OPTIMIZATION

Mathematical Models In Natural Science And Engineering

AN Whitehead



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