Vagueness

TVJC4-34 Denial by Vagueness (Technique, Prerequisite, Facilitators)
TVJC4-35 The System and the Real World

4 Principles

TVJC4-36 Talking about the World: 4 Principles
   (von Neumann, Reductionism, Shanley, Montaigne)

von Neumann

TVJC4-37 von Neumann’s Principle (Designations)
TVJC4-54 Aligning a Description (OS Map with Triangulation Point)

Reductionism

TVJC4-39 The Principle of Reductionism
TVJC4-40 Clarifying Domain Concepts (V, flight -> trip, stage)

Shanley

TVJC4-41 The Shanley Principle (World is certainly like this)
TVJC4-42 Shanley and Many Descriptions (Operation in Editing, Histy, GUI)

Montaigne

TVJC4-43 Montaigne’s Principle (Grammar, US Gov’t Requirements)
TVJC4-44 Indicative and Optative (Drowning, keep them apart)

Envoi

TVJC4-51 Three Topics and a Button (4 Facets, 4 Denials, 4 Principles)
TVJC4-46 The World and Us (2) (Margaret Fuller, Thomas Carlyle)
Title: The World and the Machine

Introduction
TVJC4-09 Ways of Looking at Software
TVJC4-10 What and How
TVJC4-49 The Machine, the Model, and the World (B Cantwell Smith)
TVJC4-11 Talking about the World and the Machine
TVJC4-12 Three Topics and a Button (4 Facets, 4 Denials, 4 Principles)

4 Facets
TVJC4-14 4 Facets of the Relationship (Model, Interface, Engineering, Problem)

Modelling
TVJC4-15 Modelling a Reality (SADT, Ackoff)
TVJC4-16 The Machine as a Model of the World (Authors, Novels, DB)
TVJC4-17 Modelling and OO (Intersecting description sets)
TVJC4-18 Non-Modelling and OO (Private descriptions in DB/Novels)

Interface
TVJC4-19 The Machine - World Interface (Posting a letter)
TVJC4-20 Shared Phenomena (Switch Panel)
TVJC4-21 Shared Phenomena and OO (Switch Panel, intersecting phen. sets)
TVJC4-38 Modelling and Shared Phenomena (they are different)

Engineering
TVJC4-22 Engineering: Requirements, Specifications and Programs
TVJC4-52 Requirements, Specifications, Programs (OO, Specs are both)
TVJC4-23 Engineering and OO (intersecting phen. sets)
TVJC4-24 A Little Engineering Example (Runway Requirement and Spec)
TVJC4-50 Properties of the World (Requirement and other links)

Problem
TVJC4-25 The Problem Facet of the Relationship
TVJC4-26 A Simple Editing Tool (Editing and GUI and Revision History)
TVJC4-27 Two Requirements Sharing Phenomena (Editing and Info, ops etc)
TVJC4-53 How Requirements Fit Together (CMYK)

4 Denials
TVJC4-45 The World and Us (1) (Wordsworth: World is too much with us)
TVJC4-13 4 Kinds of Denial (Prior Knowledge, Hacking, Abstraction, Vagueness)

Prior Knowledge
TVJC4-28 Denial by Prior Knowledge (Rethinking the Motor-Car)
TVJC4-29 Denial by Prior Knowledge (Specialised, and Standardised)

Hacking
TVJC4-30 Denial by Hacking (Ada, Stockbroking, Machine is baby)
TVJC4-47 The Royal Albert Bridge, Saltash
TVJC4-33 Looking at the Problem Context (DFD Context Diagram)

Abstraction
TVJC4-31 Denial by Abstraction
TVJC4-32 Doing Justice to the Problem (GOOM)