

TVJC4-48	The Package Router (Picture only)
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, Histry, 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)

TVJC4-08	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)