Macroeconomics Modelling Methodology	Macroeconomics Modelling Methodolog	
Keynesian Versus Real Business Cycle Models Keynesian macroeconomics and real business cycle macroeconomics have different approaches to modelling methodology.	Aggregate Demand Keynesian macroeconomics models aggregate demand—the demand for consumption and for investment, plus the demand for money.	
1	2	
Macroeconomics Modelling Methodology	Macroeconomics Modelling Methodolog	
For example, one might disaggregate by constructing consumption demand functions for goods and services, for nondurables, for automobiles, and for durables other than automobiles. One uses statistical methods to fit the demand functions from historical data. For example, what variables best explain the demand for automobiles? The variables might be price, income, and the cost of gasoline.	<section-header><text><text><text></text></text></text></section-header>	
3		
Macroeconomics Modelling Methodology	Macroeconomics Modelling Methodolog	
A further goal is to interpret past expansions and contractions. What caused each to occur? For example, one might blame a particular recession on too tight monetary policy, which raised the interest rate, which reduced investment demand, followed by a multiplier effect on consumption. Alternatively, one might blame a particular recession on weak consumption demand. Given the national income, consumption demand was less than usual. This lack of demand might be the cause of the recession	Utility and Production In contrast, real business cycle theory models the business cycle in a more abstract way. One analyzes a one-sector neoclassical model, with utility and profit maximization. The utility function of a "representative" consumer depends on his leisure and his consumption of goods. The consumer maximizes his lifetime utility, subject to his budget constraint. One postulates a production function for a typical firm, and the firm produces to maximize profit.	

Macroacon	omice
Macroccom	onnes

Modelling Methodology

Simulation

The economy is in general equilibrium, with demand equal to

Macroeconomics

Technology Shocks

The methodology is that shocks to technology explain the

business cycle. If the level of technology advances, then the

supply for labor and for the single produced good.		general equilibrium changes.		
Given the utility function, the production function, and the resource endowment, one solves for the general equilibrium.		Since the consumer maximizes lifetime utility, a shock to technology in one period can affect the economy not only when the shock occurs, but also in other periods.		
		8		
Macroeconomics	Modelling Methodology	Macroeconomics	Modelling Methodology	
Problem		Simulation		
A problem for real business cycle to observe the assumed shocks to tech that a particular contraction in the p changes in technology, because the observable. Hence the theory does not try to ex particular business cycles occurred	oblem for real business cycle theory is that one cannot rve the assumed shocks to technology. One cannot prove a particular contraction in the past was caused by particular ges in technology, because these changes are not rvable. ce the theory does not try to explain why or when cular business cycles occurred.		Instead, one simulates the model by assuming a probability distribution of the shocks to technology. Some years technology improves, but other years it may stay constant or decline. The goal is to find that the probability distribution of expansion and contraction generated by the model agrees with historical observation.	
9		10		
Macroeconomics	Modelling Methodology	Macroeconomics	Modelling Methodology	
The theory does attain this goal, in utility and production functions and distribution of the technology shoc distribution for expansion and cont historical observation. That one does not explain or interp or contraction in the past remains a	the sense that a choice of d a choice of the probability ks generates a probability raction that does agree with ret any particular expansion basic weakness.	Explanation? The issue remains of whether the real business cycle methodology is valid. Do shocks to technology indeed explain expansion and contraction? Unless one can measure technology shocks independently of the business cycle, the asserted relationship remains unproved.		
11			12	