

Contents

1	Introduction	1
1.1	Housing Economics: The Macro, Micro, and Meso Levels of Analysis	2
1.2	The Scope of the Work	7
1.2.1	What Propositions Are Explored?	9
1.3	Data and Methods of Data Analysis	11
1.4	The Structure of the Work	11
	References	14
2	A Consideration of Related Contributions in the Fields of Housing and Consumption	17
2.1	Introduction	17
2.2	House Price Diffusion Between Buyers, Vintages, and Regions	18
2.2.1	UK House Price Ripple Effect	18
2.2.2	Contributions Using Other Methods	21
2.2.3	Revealing House Price Diffusion in Other Countries	22

2.2.4	Price Interaction Between Housing Markets of Different Quality	24
2.3	How Long Are Economic Cycles?	28
2.3.1	Evidence of Cycles in Property	31
2.3.2	International Cycles	33
2.4	Consumption over a Life Time	34
2.4.1	The Consumption and Housing Nexus	35
2.4.2	Credit Constraints: Constrained Consumption	36
	References	37
3	Housing Market Theory	47
3.1	Introduction	47
3.2	Monocentric Urban Model	48
3.3	Interaction of Urban Centres	53
3.4	From Rent to House Prices	57
3.5	Buyers that are Sellers—A Key Source of Volatility	58
3.6	Shock and Cycle—Two Views	60
3.6.1	New and Traditional Periodicities	62
3.6.2	Cycles in House Prices	65
3.6.3	Life Cycle Effects on Consumption and Housing Choices	66
3.6.4	The Interweaving of Cycles	66
3.6.5	Cycles and Expectations	67
3.7	Explanations of Inter-urban Price Co-movement	69
3.7.1	Balanced Economy Models	69
3.7.2	Urban Systems, Nodality and Imbalanced Economy Models	72
3.8	What is a Geographical Housing Market?	74
3.8.1	A Unifying Framework to Consider Spatial Market Interaction	78
3.8.2	The Ripple—A Series of Shocks or Persistent Cycle	83
3.9	Consumption	84
3.9.1	Forward-looking Consumption Models	84

3.9.2	Consumption Constraints and Financial Liberalisation	86
3.9.3	Property, Consumption and the Wealth Effect	88
3.9.4	The Age of the Buyer—Income and Substitution Effects	89
3.9.5	Consumption of Durable Goods Over the Cycle	89
	References	90
4	Spectral Analysis and Other Pairwise Techniques	97
4.1	Introduction	97
4.2	Filters and Cycles	98
4.3	Cross-Spectral Analysis	99
4.3.1	Covariance Stationary Time Series	100
4.4	Finance, Income, and Consumption	105
4.5	Granger Causality	106
4.6	Unit Roots	107
4.7	Application of Unit Root Tests and Granger Causality	108
4.8	Cycle Perspective in the Time Domain	109
	References	110
5	House Price, Consumption, and Construction Data	115
5.1	Introduction	115
5.2	The Choice of Nominal Over Real Values	117
5.3	The Time Paths of Cycles and Trends	119
5.4	Buyer-Group Prices	121
	References	127
6	Evidence of Cycles in the Housing Economy	129
6.1	Introduction	129
6.2	Capturing Longer Cycles in Long Series	130
6.3	Consumption, Income and Housing—What Has Changed?	134
6.3.1	HHE and GDP	134

6.3.2	HHE and House Prices	135
6.4	Construction Expenditure	138
6.4.1	The Long View	138
6.4.2	Evidence of a Change?	140
6.5	How Is Lending Affected by the Housing Economy?	143
6.5.1	Lending and GDP	143
6.5.2	Lending and House Prices	144
6.6	Consumer Durables—Deferrable Consumption	147
6.6.1	Consumer Durables and GDP	147
6.6.2	Consumer Durables and House Prices	147
6.7	House Vintages—Are New Dwelling Different?	150
6.8	Buyer Groups and the Recycling of Dwellings	154
6.8.1	Do Alternative Cycle Decompositions Affect Results?	156
6.9	The Ripple Effect and Buyer Groups	156
6.9.1	Is Price Diffusions Better Explained by Urban Systems Theory?	159
6.10	Time Domain Confirmation—Unit Root Tests	161
6.11	What Is Inferred from the Results?	166
6.11.1	A Persistent Cyclical Perspective of the Ripple Effect	166
6.11.2	Price Leadership and Overlapping Markets	166
	References	167
7	Contributions to the Field and Policy Implications	171
7.1	Spectral Methods	173
7.2	Length of Series and Cycles	173
7.3	Changing Cycles	174
7.4	House Prices and Consumption at the National Level	175
7.5	Buyer Groups and the Ripple Effect	177
7.6	Robust Cycles	178
7.7	Policy and Future Research: Recycling and Society	180
	References	183
	Index	187

Cycles in the UK Housing Economy
Price and its Relationship with Lenders, Buyers,
Consumption and Construction

Gray, D.

2017, XII, 192 p. 31 illus., Hardcover

ISBN: 978-3-319-63347-3