Contents

2.1 Value-Based Management 2.1.1 Value 2.1.2 Valuation 2.1.3 Value Drivers and Influencing Factors 2.1.4 Empirical Aspects and Managerial Relevance 2.2 Supply Chain Management 2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research	1	Intro	duction		1	
2.1 Value Based Management 2.1.1 Value 2.1.2 Valuation 2.1.3 Value Drivers and Influencing Factors 2.1.4 Empirical Aspects and Managerial Relevance 2.2 Supply Chain Management 2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research		1.1	Introdu	action	1	
2.1.1 Value 2.1.2 Valuation 2.1.3 Value Drivers and Influencing Factors 2.1.4 Empirical Aspects and Managerial Relevance 2.2 Supply Chain Management 2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research 3 Methodological Aspects	2	Tern	ninology	and Related Literature	7	
2.1.2 Valuation 2.1.3 Value Drivers and Influencing Factors 2.1.4 Empirical Aspects and Managerial Relevance 2.2 Supply Chain Management 2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects		2.1	Value-Based Management			
2.1.3 Value Drivers and Influencing Factors 2.1.4 Empirical Aspects and Managerial Relevance 2.2 Supply Chain Management 2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.1.1	Value	8	
2.1.4 Empirical Aspects and Managerial Relevance 2.2 Supply Chain Management 2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.1.2	Valuation	9	
2.2 Supply Chain Management 2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.1.3	Value Drivers and Influencing Factors	11	
2.2.1 Terminology and Characteristics of Supply Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.1.4	Empirical Aspects and Managerial Relevance	14	
Chain Management 2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research 3 Methodological Aspects				Chain Management	16	
2.2.2 Physical, Logical and Financial Flows in Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.2.1	Terminology and Characteristics of Supply		
Supply Chains 2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects				Chain Management	16	
2.2.3 Relationships, Constituents and Components of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.2.2	Physical, Logical and Financial Flows in		
of Supply Chains 2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects				Supply Chains	18	
2.2.4 Benefits of Supply Chain Management 2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.2.3	Relationships, Constituents and Components		
2.2.5 Supply Chain Management Framework 2.2.6 Dynamics and Uncertainties in Supply Chains. 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry. 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research. 3 Methodological Aspects				of Supply Chains	18	
2.2.6 Dynamics and Uncertainties in Supply Chains 2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research 3 Methodological Aspects			2.2.4	Benefits of Supply Chain Management	19	
2.2.7 Supply Chain Management in the Fast Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research 3 Methodological Aspects			2.2.5	Supply Chain Management Framework	20	
Moving Consumer Goods Industry 2.3 Value-Based Supply Chain Management 2.3.1 Financial Impacts of Supply Chain Performance 2.3.2 Status of Related Academic Research Methodological Aspects			2.2.6	Dynamics and Uncertainties in Supply Chains	24	
2.3 Value-Based Supply Chain Management			2.2.7	Supply Chain Management in the Fast		
2.3.1 Financial Impacts of Supply Chain Performance				Moving Consumer Goods Industry	26	
2.3.2 Status of Related Academic Research		2.3	Value-	Based Supply Chain Management	32	
3 Methodological Aspects			2.3.1	Financial Impacts of Supply Chain Performance	32	
			2.3.2	Status of Related Academic Research	38	
3.1 Research Question and Delineation	3	Metl	Methodological Aspects			
		3.1	Resear	ch Question and Delineation	51	
3.2 Research Methodology		3.2 Research Methodology		ch Methodology	52	
3.2.1 Qualitative and Quantitative Research Designs			3.2.1	Qualitative and Quantitative Research Designs	52	
3.2.2 Model-Based Quantitative Research			3.2.2	Model-Based Quantitative Research	53	
3.2.3 Axiomatic and Empirical Quantitative Research			3.2.3	Axiomatic and Empirical Quantitative Research	54	
3.2.4 Empirical Focus of the Research Design			3.2.4	Empirical Focus of the Research Design	55	

xii Contents

	3.3 3.4		56 59
	.).4		59
		3.4.2 Framework for Value-Based Supply Chain	
		•••	61
		······································	
4		tent Analysis of Literature on Value-Based Supply	65
			03 65
	4.1	Introduction.	
	4.2	Contopicual 2 usis	66
			66
		1.2.2	67
	4.3		68
		110.11	68
		110.12	68
	4.4	1	69
			69
		1.1.2	71
		1	72
	4.5	Conclusion	73
5		ntifying Value Impacts of Supply Chain Cost and	75
			75 75
	5.1		76
	5.2	Ourself than I make the same than the same t	76
		2.2	78
		2 multi-2	78
	. .	5121C	79
	5.3		
	. .		81
	5.4		81
	5.5	Conclusion	84
6	Beno	chmarking Companies from the Fast Moving	۰.
		3 	85
	6.1		86
	6.2		87
			87
			88
		6.2.3 Supply Chain Management in the Fast	
		;	9(
		0.2.1 Beneming	91
	6.3		92
			93
			93
		<u>1</u>	93
		6.3.4 Limitations of the Benchmarking Study	94

Contents xiii

	6.4	Benchmarking Study from the Fast Moving Consumer	
		Goods Industry	95
		6.4.1 Benchmarking Planning	96
		6.4.2 Benchmarking Analysis	97
	6.5	Summary and Discussion	105
	6.6	Conclusion	107
7	Valu	-Based Strategic Supply Chain Planning	109
	7.1	Introduction	109
	7.2	Literature Review	110
		7.2.1 Value-Based Supply Chain Management	110
		7.2.2 Supply Chain Planning	112
	7.3	Research Methodology and Conceptual Elements	113
		7.3.1 The Quantitative Model	113
		7.3.2 Supply Chain Planning and Financial Planning	114
	7.4	Value-Based Strategic Supply Chain Planning	115
		7.4.1 Initial Top-Down Planning	115
		7.4.2 Bottom-Up Validation of Strategic Supply	
		Chain Plans	117
		7.4.3 Integration Aspects	118
	7.5	Conclusion	118
8	Dyna	mics and Uncertainties in Tactical Supply Chain Design	121
	8.1	Introduction and Problem Statement	121
	8.2	Literature Review	124
		8.2.1 Supply Chain Management in the Fast	
		Moving Consumer Goods Industry	124
		8.2.2 Supply Chain Design and New Product Introduction	125
		8.2.3 Value-Based Supply Chain Management	126
	8.3	Conceptual Framework for Value-Based Supply Chain	
		Management	127
	8.4	Empirical Case Example	129
		8.4.1 Solution Approach	129
		8.4.2 General Settings	130
		8.4.3 Simulation Model	131
		8.4.4 Simulation Scenarios	132
		8.4.5 Numerical Results	132
	8.5	Discussion	136
	8.6	Conclusion	137
9		Impacts of Dynamics and Uncertainties in Tactical	
7		ly Chain Design	139
	9.1	Introduction	139
	9.2	Literature Review	14
		9.2.1 Supply Chain Design and New Product Introduction	14
		9.2.2 Value-Based Supply Chain Management	142

xiv Contents

	9.3	Solution Method	143
	9.4	Case Example	144
		9.4.1 General Setting	144
		9.4.2 Simulation Model and Value-Based	
		Evaluation Approach	146
		9.4.3 Simulation Scenarios	149
		9.4.4 Numerical Results	149
	9.5	Discussion and Conclusion	153
10	Impa	cts of Supply Chain Management on Company Value	155
	10.1	Introduction	155
	10.2	Literature Review	157
		10.2.1 Value-Based Management	157
		10.2.2 Value-Based Supply Chain Management	157
	10.3	Methodological Aspects	159
		10.3.1 Research Question and Methodology	159
		10.3.2 Conceptual Elements	160
	10.4	The Quantitative Model	162
		10.4.1 Model Introduction	162
		10.4.2 Numerical Examples	165
		10.4.3 Important Criteria for Value Creation	169
	10.5	Integration Aspects	173
	10.6	Summary and Discussion	174
	10.7	Conclusion	176
11	Conc	lusion	177
	11.1	Summary and Findings	177
	11.2	Discussion	180
	11.3	Limitations and Further Research Prospects	184
12	Appe	endices	187
	12.1	Paper Sample and Categorization for the Content	
		Analysis Given in Chap. 4	187
	12.2	WACC Figures for the Benchmarking Study of Chap. 6	190
	12.3	Mathematical Proofs for the Lemmata of Chap. 10	190
		12.3.1 Linearity of Value Functions	190
		12.3.2 Proof of Lemma 10.1	192
		12.3.3 Proof of Lemma 10.2	193
		12.3.4 Proof of Lemma 10.3	194
		12.3.5 Proof of Lemma 10.4	196
		12.3.6 Proof of Lemma 10.5	198
		12.3.7 Proof of Lemma 10.6	198
	12.4	Status of Publication and Presentation of the Chaps. 4–10	200
P	C		201
ке	1erence	es	2U I