## Contents

List of Figures and Tables		vii		
		d: From the Management of R&D to	ix	
Knowledge Management			17.	
Αc	know	xviii		
		action: Why We Need a New Theory Knowledge-Based Firm	1	
1		Characteristics of Knowledge	6	
1	1.1	Knowledge is subjective	7	
		Knowledge is process-relational	9	
		Knowledge is aesthetic	12	
		Knowledge is created through practice	13	
	1.5	Towards a process theory of the	10	
	1.0	knowledge-based firm	14	
2	The	Theoretical Framework	18	
	2.1	The SECI model	18	
	2.2	A dynamic model of knowledge as		
		the creating process	26	
3		ding the Knowledge-Creating Firm	53	
		The abilities that constitute <i>phronesis</i>	55	
		Exercising phronesis	65	
	3.3	Conclusion	66	
4	and briving objectives.			
		the Common Good	70	
		Eisai Co., Ltd	70	
		Honda Motor Co., Ltd	87	
	4.3	Implications	103	
5	Ba		107	
		Mayekawa Manufacturing Co., Ltd	107	
	5.2	KUMON Institute of Education Co., Ltd	120	
	5.3	Implications	133	

#### vi Contents

6	Dialogue and Practice: Leveraging				
	Organizational Dialectics				
	6.1 Seven-Eleven Japan Co., Ltd	138			
	6.2 Ryohin Keikaku Co., Ltd – Muji	156			
	6.3 Implications	170			
7	Dynamic Knowledge Assets in Process	174			
	7.1 YKK Corporation	174			
	7.2 JFE Steel Corporation	185			
	7.3 Implications	201			
8	Leadership: Fostering Distributed Excellence				
	in the Organization	206			
	8.1 Canon Inc.	207			
	8.2 Toyota Motor Corporation – Prius project	220			
	8.3 Implications	231			
9	Conclusions	241			
	9.1 New developments	241			
	9.2 Future challenges	244			
No	otes on Authors	246			
In	ıdex	247			

# List of Figures and Tables

### **Figures**

2.1	The knowledge-creating process: SECI model	19
2.2	A process model of the knowledge-based firm	27
2.3		35
2.4	Ba: interpenetration of environment,	
	structure, and agent	40
2.5	Organization as organic configuration of Ba:	
	the knowledge ecosystem	41
3.1	Soichiro Honda watching motor cycle racing	59
3.2	Soichiro Honda drawing a sketch on the ground	61
4.1	Profits as a result of providing customer benefits	72
4.2	Empathizing with patients: Researchers indwelling with	
	the elderly	75
4.3	The concept of a Knowledge Creation Department	82
4.4	Results of the Knowledge Survey	84
4.5	Honda's net sales and other operating revenue/	
	operating margins	88
4.6	Honda's income/return on equity (ROE)	89
4.7	R&D system in Honda R&D Co., Ltd	100
4.8	LPL system to distribute practical wisdom (phronesis)	102
5.1	Mayekawa's business areas	109
5.2	Mayekawa as an organic configuration of doppos	
	and blocks	111
5.3	Simplified model of kigyouka keikaku	115
5.4	Enrollment trends in the KUMON Centers	122
5.5	Self-learning system of the KUMON method	123
5.6	The process of learning in the KUMON method	125
5.7	Expansion of KUMON activities	129
5.8	Co-creation of ba between Mayekawa and a customer	134
6.1	The knowledge-creating process of Seven-Eleven Japan	139
6.2	Conceptual diagram of product positioning of Muji products	161
6.3	Muji advertisement: Muji bowl in a traditional Japanese	
	Shoin room (left) and Zen garden (right) at Ginkakuji	
	(Jishoji) temple in Kyoto	169
6.4	The view of Muji as an empty container	171
7.1	YKK management principles	176
7.2	Overview of the JFE group	187
7.3	Exchanging personnel at the JFE West Japan Works	194

### viii List of Figures and Tables

7.4	JFE Holding's net sales and other operating	
	revenue/operating margin	198
7.5	JFE holding's debt outstanding	198
7.6	Simplified model of the JFE merger	200
7.7	YKK Cycle of Goodness and Spiral of Value Creation	203
8.1	Canon's net sales and other operating revenue/	
	operating margin	208
8.2	Canon's debt outstanding	208
8.3	Image of cell production system	213
8.4	Canon's organic configuration of "multi-layers of ba"	218
8.5	Various <i>ba</i> of the Toyota Prius project	238
Tab	les	
4.1	Number of <i>hhc</i> projects by division in 2005	77
6.1	Sales and profits of major convenience store	
	franchisers in Japan	140
7.1	Comparison of operating profit over sales (%)	199
8.1	Distributed leadership at the Prius project	222