

	Where We Are Now						
	Chapter	Relationships	Sustainability	Globalization	Drganizational Culture/Ethics	Change Management	
	Part 1 Supply Chain: A perspective for Operations Management				00		
	1. Introduction to Managing Operations Across the Supply Chain	х	х	х			
	2. Operations and Supply Chain Strategy	х	х	х	х	х	2
	Part 2 Foundations of Operations Management						
	3. Managing Processes and Capabilities	х					1
_	4. Product/Process Innovation	х	х	х		Х	
Managing Lass Systems 3/Repter 81	5. Manufacturing and Service Process Structures	х		х	х		
g Sudity Brokentary Rockentary TOtapter 71	6. Managing Quality	х	х	х	Х	х	
ProductProcesso Instantian Khapter 41 Chapter 41	7. Understanding Inventory Fundamentals	х		х			
-	8 Lean Systems	х		х	Х	х	
March 1997 Annual States	Part 3 Integrating Relationships Across the Supply Chain						
	9. Customer Management	Х					
••	10. Supplier Management	Х	х	Х	Х		
	11. Logistics Management	Х	Х	Х			
Carry Support	Part 4 Planning of integrated Operations Across the Supply chain	Х					
The second secon	12. Demand Planning: Forecasting and Demand Management	Х		Х			
	13. Sales and Operations Planning	Х		Х			-
Dispertition Names	14. Independent Demand Inventory Planning	х					
Presentative Presses	15. Materials and Resource Requirements Planning	х		х			
argente and and	Part 5 Managing Change in Supply Chain Operations						
	16. Project Management	Х	х	х	Х	х	
	17. Evolving Business Models and Change Drivers in the Supply Chain	х	х	х	х	х	







Planning Activities						
Time Horizon/ Type of Planning	Demand Planning Units	Use of Forecast and Demand Planning	Types of Decisions Involved			
Long Term 1-5 years Strategic	Dollar or unit sales by business unit across sales network	•SC network design •Technology investment •Capacity plans	•Sources of supply •Open/close facilities •Transportation			
Medium Term 6-18 months Tactical	Dollar or unit sales by product family in a region	•Sales & operations plan •Portfolio plans	•Aggregate plans •Workforce plans •New product launches			
Short Term 1-12 weeks Operational	Dollar or unit sales by item or service at a given location	Inventory plansPurchasingLabor scheduling	•Daily production •Purchase orders			
			Table 12-1 12-6			











Stat	istical Based Fore	casting cont'd
:	Sales (lbs)	
Sunday	137.1	
Monday	123.6	
Tuesday	134.9	
Wednesday	160	
Thursday	140.4	
$F_{Fri} = \frac{12}{3}$	<u>23.6+134.9+160.0-</u> 4	+140.4 = 139.7 <i>lbs</i>
If actual Fr	iday sales turn out to	o be 135.0
$F_{\text{Sat}} = \frac{134}{2}$	4.9 + 160.0 + 140.4 + 4	-135.0 = 142.5 <i>lbs</i>
		Example 12-1 1



• Weighted Moving Average: assigns different weights to each period's demand based upon its importance

$$F_{t+1} = a_t d_t + a_{t-1} d_{t-1} + a_{t-2} d_{t-2} + \dots + a_{t-n} d_{t-n}$$

	Weigł	nted Mov	ving Aver	age	
		Sales (lbs)	Day	Weight	
	Sunday	137.1			
	Monday	123.6	4 days ago	0.1	
	Tuesday	134.9	3 days ago	0.2	
	Wednesday	160	2 days ago	0.2	
	Thursday	140.4	yesterday	<u>0.5</u>	
			total =	1.0	
F _{Fri} = (F _{Sat} =	(.1)123.6+(.2 (.1)134.9+(.	2)134.9 + (2)160.0 + (.	2)160.0 + (.: .2)140.4 + (.	5)140.4 = 141. 5)135.0 = 141	5lbs .1lbs



























