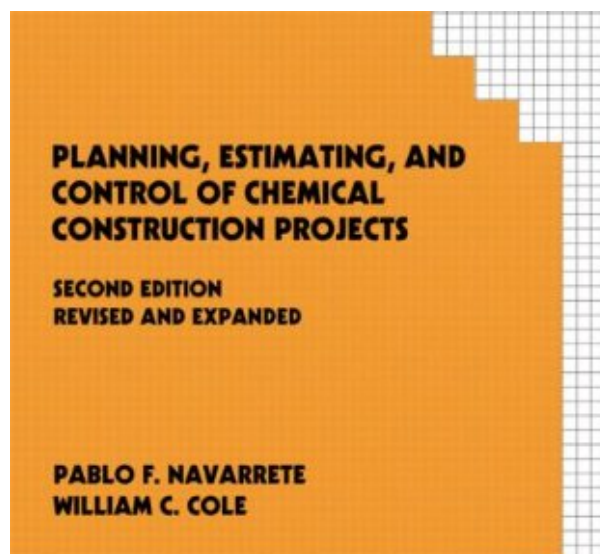


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PROJECT MANAGER					
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Business Planning	Regul. Development	Process Engineering	Contractor Selection	EPC	Start-up & Operation
Market Study	Site Selection		Proc. Preparation	Proc. Engineering	
Process Selection			Material Selection	Detailed Eng.	Check Out
Project Economics	HAZ. Analysis			Procurement	Startup
	Process Engineering	Phase I	Bidding	Construction	Operations
Conceptual	Phase 2 Estimating				
Order of Magnitude	Estimation	Allocation	Evaluation	Construction Management	
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SECOND EDITION  
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PABLO F. NAVARRETE  
WILLIAM C. COLE

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Process Selection	Process Economics		Detailed Eng.		Check Out
	Plant Analysis		Material Selection	Procurement	Startup
Conceptual	Process Engineering	Phase I	Bidding	Construction	Operations
	Estimating	Appreciation	Execution		
Order of Magnitude	Preliminary	Executive Plan / Master Schedule	As-built	Construction Management	
Initial Plan of Action	Preliminary	Plan	Control		
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I am about 50% through the book, and it has provided me with a good baseline approach to small & large projects. I have worked in process engineering, manufacturing, and process automation/control, but I have never professionally executed a chemical construction project. The book has everything you need to

formalize a project execution methodology, including estimating rules-of-thumb and expected outcomes of each phase in the project. The only problem that I've seen is the author's repeated incorrect usage of the word "insure" -- in most cases, Pablo should have used "ensure". OK, so I'm picky..

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