Chapter	Section	Points	
Intro	Networks = Most powerful force in the tech industry	The most powerful force for the most powerful new industry on the planet	
		However, we are stuck at the conceptual level - not a lot of empiricism, measurement, etc	
		People get network effects wrong - they aren't a binary yes/no	
		Network effect curves can be measured as S curves - it's not just conceptual	
		When you have network effects your direct competitors usually have them too. Network competition is totally different	
	The Network Effects Curve is shaped as an S	The Launch	
		The Orbit	
		Falling to Earth	
		The Slingshot	
		But how do you get there?	
Liftoff	Networks have to fight the gravitational pull that causes the	e Metcalfe's Law is flawed	
		There are positive network effects, and negative ones	
		Early networks, by default, collapse - that's why they are so hard to build	
		The goal is to hit escape velocity and reach orbit, when things are self-sustaining	
	Defining escape velocity	Escape velocity is the moment when your network is default alive, not dead	
		Define the network to find the right strategy	
	Getting to escape velocity is counter-intuitive	Not iterative: why a countdown / true launch event can be useful - bring both sides to	ogether
		Not analytical: Doing something fun/cool - Killer product. Rider Zero, Uber Ice cream	/ Kittens
		Not large: Pick a niche (geo, vertical) and establish liquidity first	
		Not the direct path: Come for the tool stay for the network	
		Not scalable: Manually get everyone onto the network - don't need to automate/scale	e
		Not profitable: Subsidies that are unit economic negative :(
		Not real: Might need to use fake users (reddit, going "full stack") to prop up the netwo	ork
	What fish ecologists have to tell us about network effects	Fish population models are a better way to think of networks than Metcalfe's Law	
		More importantly, you have to measure things from the user's point of view	
		Demand-side KPI: "Zeroes"	
		Supply-side KPI: Breakeven rate (versus expected wage, and subsidies)	
Orbit	When network effects kick in, you'll know	Getting to orbit means you are effortlessly circling the Earth - an apt metaphor	
		bc the underlying structure of a network effect is a loop	
		Acquisition loops increase new signups	
		Engagement loops lower churn	
		Your cohorts improve over time, in quantity and retention	
		Net MAU = new + reactivated - churned	
	Viral growth = network effects for acquisition	Your network "surrounds" unconverted nodes, increasing their chances	
	······ 5······	Viral growth is a science, not just cool marketing stunts	
		you can think of virality as loops that live on existing platforms	
		esports produces video, people seeing each other use scooters, social networks buil	It on email, rideshare built on IRL
		loops generate many casual users, which you convert to engaged users	
		network effect = more density = more engagement = more virality	
		This supercharges "new" in your growth accounting	
	Network density = network effects for engagement	Growth of network density increases core engagement	

		more nodes in a communication network means more people to talk to (and who will talk to you)		
		more nodes in a marketplace means there's more listings, and higher transaction %		
		Fewer "zeroes"		
	Your exponential growth curve is a bunch of lines, stack	ed Your hockey stick isn't actually an exponential growth curve. It's a bunch of linear curves added together		
		increasing geography		
		increasing product lines (and revenue!)		
		increasing automation		
		increasing conversion		
		increasing frequency and engagement (via new use cases?)		
		consolidation of networks		
Slingshot	Your distribution is a defensive moat, but also an offens	ive Always be the big guy		
		Your network co-exists with a collection of adjacent S-curves, some are going better than others		
		Use one side to move onto another side		
		Use high frequency to cross-sell lower frequency		
	Big companies actually have an advantage	Become the platform for your own apps		
		Buy smaller players		
		Cross-sell from adjacent industries		
		Commoditize one side (Android)		
		M&A can work. Interoperability and consolidation of networks		
	If you don't slingshot, then your network will stagnate	Metcalfe's Law is also wrong, once a network is at scale		
		More new nodes start to matter less		
		Acquisition costs trend up over time		
		Saturation effects		
		Run out of new geos, new product lines, etc.		
		Global network versus local network - when you surround but can't take over a stronghold		
		Disintermediation		
		Quality, trust, customer churn		
		There's often a "supply crisis" as they professionalize		
		The network grows the wrong way		
	What success looks like	Marketnlages		
	What success looks like	Social/comms platforms		
Competition	Networks can lose value exponentially	Matcalfa's Law in reverse mean networks can lose value fast		
		Even worse, if you get nushed out of orbit, you can crash		
		When you have network effects your direct competitors usually have them too		
		Network competition is totally different		
	Competition favors the Goliath	Competition in the network effects world looks different as the big guy versus the small guy		
		New entrants: Reshape the S-curve and make it harder to hit escape velocity		
		Existing entrants: Two self-sustaining networks will automatically bounce back from small competitive moves		
		Incumbents / big companies often have an advantage		
		Increase frequency and hang additional products		
	When you're David, you have to do it different	Big guy educates, small guy gets you to multi-tenant		
		Competitive wins are better than creating new market		
		Small guy subsidies cost less - asymmetric advantage		

	Big guy is horizontal, small guy can cherry pick (use case, segment, route)		
	Viral growth happens on pre-existing networks		
Defining success	Why competitive benchmarking of networks is important		
	Defining the network - by geo? team size? company?		
	Size of network, correlations to user value?		