Abstract Algebra Complete Notes and Transcript

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Abstract	Set Theory
This is a beginners resource to the basic and fundamental features of algebra. The main objects covered in this section are the construction of set, groups, rings, and fields (and everything in between).	What is a Set
	Naive Set Theory
	Paradoxes
between).	Axiomatic Set Theory
	Set Construction
Part 2 focuses on expansions of these ideas.	Roster Notation
	Set Builder Notation
	Set Properties
	Membership
	Cardinality
Contents	Power Sets
	Partitions
Set Theory 1	
What is a Set	Set Operations
Naive Set Theory	Union
Paradoxes	Intersection
Axiomatic Set Theory	Complements
Set Construction 1 Roster Notation 1	Cartesian Product
Set Builder Notation	
Set Properties	
Membership	
Cardinality	
Power Sets	
Partitions	
Set Operations	
Union	
Intersection	
Complements	
Cartesian Product	
Group Theory 2	
Rings 2	
Fields 3	

Rings

${\bf Fields}$