Table of Contents

Ackno	owledgements	ix
Chap: 1. 2. 3. 4. 5.	ter I. Groundwork An Overview of Stability Theory	1 9 16 25 30
Part	A. Independence	
Chapt	ter II. The Abstract Notion of Independence	35
1.	Axioms for Independence	38
2.	Further Properties of Independence	46
Chapt	ter III. Forking	53
1.	Stable Theories: ϕ -Types, Rank, and Definability	54
2.	Types Over Models	62
3.	Nonforking Types Over Sets	72
4.	$\kappa(T)$ and the Spectrum of Stability	80
5.	Definable Chain Conditions in Algebra	92
•	er IV. Finite Equivalence Relations, Definability, and Strong	
Types		99
1.	Finite Equivalence Relations	99
2.		107
3.	Strong Types and Multiplicity	112
Chapt	er V. Indiscernibles In Stable Theories	118
1.	Sets Of Indiscernibles	118
2.	Comparing Sets of Indiscernibles	127
3.	Forking and Dividing	132
	· · · · · · · · · · · · · · · · · · ·	138
1.	Orthogonality Of Types	138

~	1 1	•	\sim	
117	hla	Ωŧ	Cont	tante
10	MUIC	OI.	COL	

xii

2. 3.	0	148153
<i>O</i> 1 4	to VII Dools	156
_	ter VII. Rank	156
1.	Ranks and Forking	
2.		158
3.	Ranks and Stable Groups	163
Chapt	ter VIII. Normalization and T^{eq}	170
1.		170
2.	Normalization	176
3.	'Geometric' Stability Theory	180
Part	B. Dependence and Prime Models	
Chapt	ter IX. Atomic and Prime Models	187
1.	Elementarily Prime Models	188
2.	The General Notion of Isolation	192
3.	Bookkeeping Axioms for Isolation Relations	201
4.	Uniqueness Of Strictly Prime Models	204
5.	Locally Atomic Models	208
6.	The Number of Models of Strictly Stable Theories	213
Chap	ter X. Freeness and Isolation	217
1.	Axioms Relating Freeness and Isolation	-
2.	Powerful Isolation Relations	
3.	Uniqueness of Prime Models	
4.	Indiscernible Sets in Prime Models	
Part	C. Local Dimension Theory	
Chap	ter XI. Acceptable Classes	235
1.	Basic Properties of an Acceptable Class $K \dots \dots \dots$	
2.	S-Models	238
Chap	ter XII. Regular Types	241
1.	Weak Isolation and Regular Types	241
2.	Existence of Strongly Regular Types	249
3.	Some Variants on Transitivity	253
4.	Strongly Regular Types and Compulsion	256
Chan	ter XIII. Decomposition Theorems and Weight	262
1.	The Decomposition Theorem For S-Models	262
2.	Weight	265
3.	Ubiquity of Regular Types	272
4.	Linear Decomposition of Finitely Generated AT-Models	

Table of Contents xiii

Part D. The Number of Models	
Chapter XIV. The Construction of Many Nonisomorphic Models 1. Many Nonisomorphic Graphs	283 283 285 290
Chapter XV. The Width of a Theory 1. Classifying Theories By Width 2. Unbounded Theories 3. Bounded Theories 4. Almost Homogeneous Models	292 293 296 302 312
Chapter XVI. The Dimensional Order Property 1. Avatars of the Dimensional Order Property 2. Triviality of Forking	316 316 325 331
Chapter XVII. NDOP: Theories Without the Dimensional Order Property 1. Normal Trees	341 342 347 350 356
Chapter XVIII. Vaught and Morley Conjectures for ω-Stable Countable Theories 1. Supportive Types	365 366 371 377 383 392
Bibliography	399
Subject Index	437
Symbol Index	443