Contents

Model Theory in Algebra, Analysis and Arithmetic: A Preface ............ 1
Dugald Macpherson and Carlo Toffalori

Some Themes Around First Order Theories Without
the Independence Property ........................................... 13
Anand Pillay

Lectures on the Model Theory of Real and Complex Exponentiation ..... 35
A.J. Wilkie

Lectures on the Model Theory of Valued Fields ............................. 55
Lou van den Dries

Undecidability in Number Theory ........................................ 159
Jochen Koenigsmann