

## TABLE OF CONTENTS

ACKNOWLEDGEMENTS .....	8
INTRODUCTION .....	8
CHAPTER ONE Signed dies in the Iranian world and beyond .....	12
CHAPTER TWO Dirham die production in the caliphal period .....	19
CHAPTER THREE The coinage of the Iranian successor states .....	26
CHAPTER FOUR The first die signer: Mujīb in Northern Afghanistan (293/905–302/914) .....	37
CHAPTER FIVE Al-Ḥārith (also known as Mujīb)ʼs career in Nīshāpūr (313/295–339/950) ...	53
CHAPTER SIX Al-Ḥasan b. Muḥammad: the early years in the Jibāl region of northern Iran (335/946–352/963) .....	66
CHAPTER SEVEN Al-Ḥasan b. Muḥammad: the later years in the Jibāl, Ṭabaristān and Arrajān (352/963 to the mid-360s) .....	72
CHAPTER EIGHT Muḥammad: die-engraver in Kākwayhid Iṣfahān (413/1022–421/1030) .....	85
CHAPTER NINE Conclusions: from mass production to local craft .....	90
BIBLIOGRAPHY .....	97
APPENDIX 1 Estimates of annual die usage in selected Sāmānid and Būyid mints .....	101
APPENDIX 2 Provenance of illustrated coins .....	117
PLATES 1–3 Umayyad dirhams (Plates 1–2); ‘Abbasid dirhams (Plate 3) .....	121