

Contents

Preface	vii
Lecture notes on the circular law CHARLES BORDENAVE and DJALIL CHAFAI	1
Free probability and random matrices ALICE GUIONNET	35
Random matrix theory, numerical computation and applications ALAN EDELMAN, BRIAN SUTTON, and YUYANG WANG	53
Recent developments in non-asymptotic theory of random matrices MARK RUDELSON	83
Random matrices: The universality phenomenon for Wigner ensembles TERENCE TAO and VAN VU	121
Index	173