

# Contents

Preface ix

**1 Introduction 1**

**2 What Is the Human Connectome? 25**

**3 Challenges 39**

**4 The Connectome at the *Microscale* 63**

**5 The Connectome at the *Macroscale* 85**

**6 The Connectome in *Motion* 109**

**7 Emerging Principles of Network Architectures 135**

**8 Computational Connectomics 155**

Epilogue 177

Notes 181

References 191

Index 215