Table of Contents

1 Introduction 1

1.1 The AVS/Express Visualization Edition course. 1

1.2 About the workbook 2

2 Using the network editor 5

2.1 Aims of the chapter. 5

2.2 Exercise 1 5

2.3 Exercise 2 23

3 Visualizing 2D arrays of data 25

3.1 Aims of the chapter. 25

3.2 Creating field files 26

3.3 Exercises. 30

3.4 Visualization of 2D data 31

3.5 Moving to your home directory 31

3.6 Exercise 1 32

3.7 Exercise 2 40

3.8 Exercise 3 51

4 Visualizing 3D arrays of data 53

4.1 Aims of the chapter. 53

4.2 Exercise 1 54

4.3 Exercise 2 62

4.4 Using the software renderer 75

4.5 Exercise 3 76

4.6 Exercise 4 79

4.7 Exercise 5 80

5 Visualizing UCD data. 83

5.1 What is UCD Data? 83

5.2 Aims of the chapter 84
5.3 Exercise 1 84
5.4 Further exercises 91
5.5 Exercise 2 91

6 AVS/Express examples 101

6.1 Aims of the chapter 101
6.2 Exercise 1 101
6.3 Other exercises 106

7 Appendix I 107

7.1 Obtaining hardcopy from AVS/Express 107
7.2 Customising AVS/Express 108
7.3 Journaling in AVS/Express 109

8 Appendix II 111

8.1 Solutions to chapter 3: field file exercises 111
8.2 Solutions to chapter 3: 2D data exercises. 113
8.3 Solutions to chapter 4: 3D data exercises. 114