# Table of Contents


Introduction

Overview vii

What Is PolyView? vii

NCSA HDF Vsets and NCSA PolyView viii

System Requirements x

Use of This Manual xi

Manual Contents xi

Form of Presentation xi

Further Reading xiii

Chapter 1 NCSA PolyView Tutorial

Chapter Overview 1.1

Starting NCSA PolyView 1.1

Getting Around 1.4

Camera Movement 1.4

Palette Manipulation 1.5

Using the View Menu 1.6

Drawing Options 1.6

Viewing Projections 1.7

Shading Data 1.7

Creating Overlays 1.8

Animating Datasets 1.9

Taking a Flight 1.9

Taking Snapshots 1.10
Using Other Options 1.10
Exiting NCSA PolyView 1.10

## Chapter 2 Command References

Chapter Overview 2.1
Command Line References 2.1
Usage 2.1
Data Parameters 2.2
HDF Files 2.2
Group Parameter 2.2
PX, PY, PZ Parameters 2.3
Connect Parameter 2.3
Scalar Parameter 2.4
Raw Palette File 2.4
ris8out File 2.5
Fly File 2.5
Control Parameters 2.6
From 2.6
Axes 2.6
Box 2.7
Constant 2.7
Labels 2.7
Lines 2.7
Points 2.7
Polygons 2.7
At Point 2.7
View Menu 2.8

Projection Submenu 2.8
Draw Submenu 2.9
Shade Submenu 2.10
Palette Submenu 2.10
Overlay Submenu 2.11
Animate Submenu 2.12
Fly Option 2.13
Pop Option 2.13
Redraw Option 2.13
Reset Option 2.13
WriteHDF Option 2.14
Confirm Submenu 2.14

Appendix **A** Installing NCSA PolyView

Overview A.1
Installing NCSA PolyView A.1

Appendix **B** Example Fly File

Overview B.1

Appendix **C** Limitations of NCSA PolyView

Overview C.1
Limitations C.1

Appendix **D** Obtaining NCSA Software

Overview D.1
Obtaining NCSA Software D.1
FTP D.1

Archive Server D.2

Mail D.3

## Figures and Tables

Figure I.1 HDF Vset Organization ix
Figure I.2 Mesh and Connectivity List x
Figure I.3 Reading and Entering a Command Line xiii
Figure 1.1 View Window 1.2
Figure 1.2 Initial View 1.3
Figure 1.3 Palette Window 1.3
Figure 1.4 Palette Submenu 1.5
Figure 1.5 View Menu 1.6
Figure 1.6 Draw Submenu 1.6
Figure 1.7 Projections Submenu 1.7
Figure 1.8 Shade Submenu 1.7
Figure 1.9 Overlay Submenu 1.8
Figure 1.10 Confirm Menu 1.10
Figure 2.1 Three- and Four- Vertex Polygons 2.4
Figure 2.2 View Menu 2.8
Figure 2.3 Projections Submenu 2.8
Figure 2.4 Loaded Demo Image 2.9
Figure 2.5 Orthographic Projection of Data 2.9
Figure 2.6 Draw Submenu 2.9
Figure 2.7 Shade Submenu 2.10
Figure 2.8 Palette Submenu 2.10
Figure 2.9 Overlay Submenu 2.11
Figure 2.10 Animate Submenu 2.12
Figure 2.11 Quit Submenu 2.14
Figure B.1 Demo.Fly File B.1
Figure B.2 File Md.c B.2

Table I.1 Meaning of Entry Format Notations xii
Table 2.1 Overlay Submenu Options 2.12
Table 2.2 Animate Submenu Options 2.13