

List of Chapters

Detailed Table of Contents	iv
List of Figures	xx
List of Tables	xxii
List of Code and Output Listings	xxii
<i>art</i> Glossary	xxvii
I Introduction	1
1 How to Read this Documentation	2
2 Conventions Used in this Documentation	4
3 Introduction to the <i>art</i> Event Processing Framework	7
4 Unix Prerequisites	34
5 Site-Specific Setup Procedure	45

6	Get your C++ up to Speed	47
7	Using External Products in UPS	107
II	Workbook	119
8	Preparation for Running the Workbook Exercises	120
9	Exercise 1: Running Pre-built <i>art</i> Modules	124
10	Exercise 2: Building and Running Your First Module	163
11	General Setup for Login Sessions	220
12	Keeping Up to Date with Workbook Code and Documentation	222
13	Exercise 3: Some other Member Functions of Modules	228
14	Exercise 4: A First Look at Parameter Sets	240
15	Exercise 5: Making Multiple Instances of a Module	265
16	Exercise 6: Accessing Data Products	272
17	Exercise 7: Making a Histogram	291
18	Exercise 8: Looping Over Collections	317
19	3D Event Displays	341
20	Troubleshooting	377

III	User's Guide	379
21	Obtaining Credentials to Access Fermilab Computing Resources	380
22	git	382
23	<i>art</i> Run-time and Development Environments	391
24	<i>art</i> Framework Parameters	399
25	Job Configuration in <i>art</i>: FHiCL	405
IV	Appendices	424
A	<i>art</i> Completion Codes	425
B	Viewing and Printing Figure Files	428
C	CLHEP	430
D	Include Guards	446
V	Index	448
	Index	449