Appendix A

Fonts

We present below a listing of fonts available using the Print Window of DsTool.

Font	Example Text

Bibliography

[1] J. Guckenheimer and P. J. Holmes. *Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields*. Springer-Verlag, New York, 1983.

[2] W. H. Press et al. *Numerical Recipes in C: The Art of Scientific Computing*. Cambridge UP, Cambridge, 1988.

[3] J. Stoer and R. Bulirsch. *Introduction to Numerical Analysis*. Springer-Verlag, New York, 1980.

Index

2-D view window 15

abbreviated menu button 4
adding points to memory 18

batch panel 7
bouncing ball 43
bounding box 22
button
    abbreviated menu 4
    command 4
    menu 4
    options 4
    window 4

canvas pane 5
clipping data 41
color
    alternating 12
    bar 15
    coding by depth 19
    current 15
    fixed points 31
    manifolds 31
    pick 12, 15
    printing 23
    setting in data files 12
colormap
    type 19
    user-defined 19
colortable 19
command button 4
command window 7
configuration data 12
constants 49
continuation data 12
convergence 30, 33

coordinates
    of mouse 15
    secondary 16
Courier fonts 22, 58
current settings data 12

data
    adding points to memory 18
    conditions to view 10
    deleting 16, 25
    formatted 11
    number of points in memory 8
    types 9, 12
    unformatted 12
default
    directory 9, 11, 19, 23
    printer 23
defaults settings window 8, 40
defining dynamical system 42
    auxiliary functions 47
    derivatives 45
    equations 43
    initial conditions 48
    inverse 46
    required 44
deleting dynamical system 57
divergence 41
dynamical systems 2, 7

exclusive setting 5

fixed point data 12
fonts 22, 58
    Courier 22, 58
    Helvetica 22, 58
    size 22
    Times 22, 58

formatted data 11
function settings window 7, 39

Helvetica fonts 22, 58

iconizing DsTool 7
implicit inverse iteration 24
independent variable 44
infinity 41
integrator 29
    fixed step 25
    variable step 26
inverse
    approximate 30, 47
    explicit 46

jacobian matrix 29

load window 7, 11

manifolds 34
memory
    function values 12
    stored points in 8
menu button 4
message 5
models 7
monochrome display 18
Monte Carlo method 30, 32
mouse
    adjust button 4, 16
    menu button 4, 16
    position 15
    select button 4, 16

Newton step 30
Newton's method 24, 26, 28, 32
non-exclusive setting 5
notifier 4
numeric field 5

options button 4
orbits panel 7

panel
    batch 7
    orbits 7
    periodic orbit 7, 31
    propagation 28
    user-defined 7
parameter data 12, 18
periodic orbit panel 7, 31
PI 49
plotting symbol 41
points, displayed before plotting 41
polar coordinates 40
PostScript 58
    large files 23
    poor quality 23
precision 41
print window 21
printer's point 22
propagation panel 28

recording data 40
reference manual 7, 11, 14, 16, 29
rescaling view windows 16
root-finding algorithms 32

save window 7, 9
secant method 32
selected point data 12, 18
selected point window 7
setting
    exclusive 5
    non-exclusive 5
    stack 5
size, font 22
stack setting 5
stopping conditions 25
symbol
    integer codes for 13
    setting in data files 13
    size 18, 41
    type 18, 41

text field 5
text pane 5
tick marks 22
time 44
    full member of phase space 18

member of phase space 49
Times fonts 22, 58
trajectories, multiple 17, 32
trajectory 2
trajectory data 12
TWOPI 49

unformatted data
color 12
order of variables 13
symbol 13
type 12
user-defined
panel 7
propagation panel 29

view options window 18
view window 7

window
2-D view 15
button 4
command 7
defaults settings 8, 40
function settings 7, 39
load 7, 11
print 21
resizing 15
save 7, 9
selected point 7
types of data displayed in 10
view 7
view options 18

zoom 16