Index

A

Abelian groups — *vol*.1 : *p*.24
Adjoint operators — *vol*.1 : *pp*.43 − 44
Autonomous systems — *vol*.1 : *p*.7

B

Bifurcation — *vol*.1 : *pp*.11 − 12, 63 − 64
Body velocity — *vol*.1 : *p*.38

C

Centroid of area — *vol*.1 : *pp*.4 − 6
Cross product — *vol*.1 : *pp*.1 − 2

D

Degrees of freedom — *vol*.1 : *p*.17
Diffeomorphic — *vol*.1 : *p*.20
Direct product of two sets — *vol*.1 : *p*.20

E

Existence and uniqueness theorem — *vol*.1 : *pp*.11, 13
Exponential map — *vol*.1 : *pp*.48 − 51
External forces — *vol*.1 : *p*.1

F

Force couple — *vol*.1 : *p*.2
Force couple system — *vol*.1 : *p*.3
Forward kinematics — *vol*.1 : *p*.78

G

Generalized coordinates — *vol*.1 : *p*.78
Geodesics — *vol*.1 : *pp*.44 − 46, 51
Group — *vol*.1 : *p*.21
Group, left/right action — *vol*.1 : *pp*.24 − 29, 33 − 33, 80

H

Holonomic constraint — *vol*.1 : *pp*.76 − 77
Homeomorphic — *vol*.1 : *p*.19
Hysteresis — *vol*.1 : *pp*.66, 70 − 71

I

Internal forces — *vol*.1 : *p*.1
Isomorphic — *vol*.1 : *p*.22

J

K

L

Lie algebra — *vol*.1 : *p*.41
Lie groups — *vol*.1 : *p*.21
Lifted actions — *vol*.1 : *pp*.31 − 34
Linearization at a fixed point — *vol*.1 : *pp*.10 − 11

M

Manifolds — *vol*.1 : *pp*.17 − 19
Manifolds, accessible — *vol*.1 : *pp*.76 − 78
Manifolds, c^k-differentiable — *vol*.1 : *p*.20

Modular addition $vol.1 : p.21$
Monotonic function $vol.1 : p.13$
Multiplicative calculus $vol.1 : pp.34 - 38, 46 - 47$
N
O
P
Phase portrait $vol.1 : pp.7 - 9$
Potentials $vol.1 : p.17$
Q
R
Reaction force $vol.1 : p.4$
Rigid body $vol.1 : p.23$
Rigid body, left lifted action $vol.1 : pp.38 - 41$
Rigid body, right lifted action $vol.1 : pp.41 - 43$
S
Semidirect product of two sets $vol.1 : p.24$
Spatial velocity $vol.1 : p.43$
Special euclidean group $vol.1 : p.23$
Special orthogonal group, *so(n)* $vol.1 : p.22$
T
Tangent spaces $vol.1 : pp.29 - 30$
U
V
Varignon's theorem $vol.1 : p.1$
Vector field $vol.1 : pp.30 - 31$
W
X
Y
Z
Zero set $vol.1 : p.76$