Index

A	
Abelian groups	vol.1:p.24
Adjoint operators	vol.1: pp.43 - 44, 103 - 103, 87
Affine spaces	vol.1:p.93
Autonomous systems	vol.1:p.7
B	1
Bifurcation	vol.1: pp.64, 11 - 12, 63
Body velocity	vol.1:p.38
C	-
Centroid of area	vol.1: pp.4-6
Connection vector field	vol.1: pp.118 - 119
Constraint, holonomic	vol.1: pp.76 - 77
Constraint, nonholonomic	vol.1: pp.110 - 117
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
Directional linearity	vol.1:p.106
E	
Embedding	vol.1:p.96
Equivalent vectors w.r.t. functions	vol.1: pp.100 - 101
Existence and uniqueness theorem	vol.1:pp.11,13
Exponential map	vol.1: pp.103 - 104, 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: pp.83 - 84,78
Fundamental vector field (infinitesimal generators)	vol.1: pp.99 - 100
G	
Generalized coordinates	vol.1:p.78
Geodesics	vol.1: pp.96 - 99, 44 - 46, 51
Group	vol.1: pp.21, 94-95
Group invariant vectors	vol.1:p.100
Group, left/right action	vol.1: pp.96, 33 - 80, 24 - 29
Group, symmetry	vol.1: pp.108 - 109
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	

	Jacobian	vol.1: pp.84 - 86
K		
	Kinematic locomotion	vol.1: pp.105 - 107
L	Lie almehne	and 1 and 41 09 100 109
	Lie algebra Lie groups	vol.1: pp.41, 98 - 100, 103 vol.1: pp.96, 98 - 99, 21
	Lifted actions	vol.1: pp.30, 98 - 99, 21 vol.1: pp.32 - 42, 52 - 54, 85 - 85, 31
	Linearity (mapping)	vol.1: pp.106 - 107
	Linearization at a fixed point	vol.1: pp.100 = 107 vol.1: pp.10 - 11
	Local connection	vol.1: pp.110 - 11 vol.1: pp.114 - 117
	Locomotion	vol.1: p.104
M	Documental	000.1 . p.101
	Manifolds	vol.1: pp.17 - 19,93
	Manifolds, accessible	vol.1: pp.76 - 78
	Manifolds, c^k -differentiable	vol.1: p.20
	Manifolds, curvature	vol.1: p.93
	Manifolds, topology	vol.1: p.93
	Modular addition	vol.1: p.21
	Monotonic function	vol.1: p.13
	Multiplicative calculus	vol.1: pp.34 - 38, 46 - 47
N		
	Nonholonomic constraint	vol.1: pp.110 - 117
0		
	Optimal frame	vol.1:p.83
P		
	Pfaffian constraint	vol.1: pp.111 - 117
	Phase portrait	vol.1: pp.8 - 9, 7
	Position trajectory	vol.1: p.105
	Potentials	vol.1: p.17
R		
	Reaction force	vol.1: p.4
	Rigid body	vol.1: p.23
	Rigid body, left lifted action	vol.1: pp.40 - 41,38 - 39
C	Rigid body, right lifted action	vol.1: pp.41 - 43
S	Semidirect product of two sets	vol.1:p.24
	Shape trajectory	vol.1: p.24 vol.1: p.105
	Spatial velocity	vol.1: pp.43, 85
	Special euclidean group	vol.1: p.23
	Special orthogonal group, $so(n)$	vol.1: p.22
	Symmetry	vol.1: pp.108 - 109
T		
-	Tangent spaces	vol.1: pp.29 - 30
U	-	
	Underactuated system	vol.1:p.104
V		
	Varignon's theorem	vol.1:p.1

Vector field vol.1: pp.30-31

Z

Zero set vol.1: pp.76, 110-111