Index

A		
	Abelian groups	vol.1: p.24
	Adjoint operators	vol.1: pp.43 - 44, 87, 103
	Affine spaces	vol.1: p.93
	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
	Connection vector field	vol.1: pp.118 - 119
	Constraint, holonomic	vol.1: pp.76 - 77
	Constraint, nonholonomic	vol.1: pp.110 - 117
	Cotangent bundle	vol.1: p.126
	Cotangent space	vol.1:p.126
	Cotangent vector	vol.1: pp.127 - 129
	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
	Direct sum of two sets	vol.1:p.125
	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.48 - 51, 103 - 104
	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.78, 83 - 84
	Fundamental vector field (infinitesimal generators)	vol.1: pp.99 - 100
G		
	Gait generation	vol.1:p.124
	Generalized coordinates	vol.1:p.78
	Geodesics	vol.1: pp.44-46, 51, 96-99
	Gradient vector field	vol.1: pp.129 - 130
	Group	vol.1: pp.21, 94-95
	Group invariant vectors	vol.1:p.100
	Group, left/right action	vol.1: pp.24 - 29, 33, 80, 96
	Group, symmetry	vol.1: pp.108 - 109
H		
	Holonomic constraint	vol.1: pp.76 - 77

II	
Homeomorphic	vol.1: p.19
Hysteresis	vol.1: pp.66, 70-71
I	
Image (algebra) Internal forces	vol.1: p.124
	vol.1: p.1
Isomorphic	vol.1:p.22
J. Lanking	
	vol.1: pp.84 - 86
Kernel	vol.1: pp.124 - 125
Kinematic locomotion	vol.1: pp.124 - 125 vol.1: pp.105 - 107
L	$vot.1 \cdot pp.100 - 107$
Lie algebra	vol.1: pp.41, 98 - 100, 103
Lie groups	vol.1: pp.41, 98 - 100, 103 vol.1: pp.21, 96 - 99
Lifted actions	vol.1: pp.31 - 42, 52 - 54, 85
Linearity (mapping)	vol.1: pp.106 - 107
Linearization at a fixed point	vol.1: pp.100 - 101
Local connection	vol.1: pp.114 - 117, 120, 122 - 123
Locomotion	vol.1: p.104
M	000.1 . p.104
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.35
Monotonic function	vol.1 : p.13
Multiplicative calculus	vol.1: p.34 - 38, 46 - 47
N	000.11. pp.01 00, 10 11
Nonholonomic constraint	vol.1: pp.110 - 117
O	00011:pp.110
One-form	vol.1: pp.125, 127 - 129
Optimal frame	vol.1: p.83
P	F.00
Pfaffian constraint	vol.1: pp.111 - 117
Phase portrait	vol.1: pp.7 - 9
Position trajectory	vol.1: p.105
Potentials	vol.1:p.17
Preimage (algebra)	vol.1:p.124
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
Shape trajectory	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
Vertical space	vol.1:p.125
Z	
Zero set	vol.1: pp.76, 110-111