

Index (Book-Chapter-Page)

A

AASHTO 1-6-35
Above grade installation 2-6-77
Absolute roughness 2-4-45
Aging 2-4-55
Air binding 2-4-49
AISI 2-7-91
Allowable tensile load 3-3-162
Anchor 2-5-70, 2-6-79, 3-3-158
Animal control 3-3-161
Annulus 3-3-160
ANSI 1-6-35
Anti-flotation anchor 2-8-118
Antioxidants 3-1-135
Applications 2-4-43
Arching 2-7-85
Arching coefficient 2-7-86
ASTM 1-4-20, 1-6-35
AWWA 1-6-35

B

Backfill 3-3-157
Backfill stabilizing 3-3-160
Backfilling 3-3-157
Back-up ring 3-2-142
Ballast 2-9-126
Ballast design 2-9-126
Bead removal 3-2-141
Bedding 3-3-153
Bell-and-spigot 2-5-76
Bend radius 3-3-155
Bending 2-5-67
Bending radius 3-3-156

Bent strap test 3-4-182
Bill of lading 3-1-131
Biological effects 1-5-24
Blocking 1-5-24
Bolt length 3-2-143
Boussineq's equation 2-7-94
Bracing 2-5-73
Branch connection 3-3-169
Branch outlet 3-2-138
Buckling 2-7-102, 2-9-123
Bulk pack 3-1-130
Buried pipe 2-5-75, 2-7-81
Butt fusion 3-2-140, 3-4-181
Butt fusion joining rates 3-2-140
Butt fusion joint quality 3-4-181
Butterfly valve 3-2-145

C

C (Hazen-Williams) 2-4-47
Carbon black 1-3-12
Cast iron 3-2-145
Cell classification 1-4-20
Centering 2-6-79
Certification 1-2-7
Chain saw 3-2-138
Chains 3-2-138
Chemical attack 1-5-25
Chemical effects 1-5-25
Chemical solvation 1-5-26
Chevron Phillips Chemical Company
LP i
Cleaning 3-2-137, 3-5-185
Coefficient of friction 3-3-168

Index (Book-Chapter-Page)

Cold (field) bending 3-3-155
Cold bending 3-3-156
Cold weather handling 3-1-135
Colebrook 2-4-44
Collapse resistance 3-3-165
Colors 1-1-2
Compaction 2-7-109
Compressed gas 2-4-43, 3-5-186
Compression coupling 3-2-148
Compressive stress 2-7-101
Concrete weight 2-9-128
Connections 2-5-68, 3-2-137
Contraction 2-5-66
Conversion factors 2-9-124
Cooper E80 2-7-100
Corrosion 1-5-24
Creep 2-7-84
Critical velocity 2-4-57
Crystallinity 1-3-12
CSA 1-2-8
CTS 1-2-7
Current 2-9-126
Curve radius 3-3-156
Cutting 3-2-137
Cyclic stressing 2-4-51

D

Damage assessment 3-5-187
Dead loads 2-7-82
Deflection 2-5-66, 2-6-78
Density 2-8-115, 1-3-12
Design factor 2-3-41, 3-3-162
Diesel smoke 3-1-131

DIPS 1-1-2, 1-2-7, 3-2-146
Disinfecting 3-5-185
Distributed load 2-7-87
DR 1-1-2, 2-3-41
Driscopipe 1-1-1, 1-2-8
Dry ballast 2-9-128
Duncan 2-7-109

E

Elastic modulus 2-5-66
Electrical isolation 3-3-163
Electrofusion 1-5-26
Elevation change 3-2-141
Elongation 1-3-18
Embankment 2-7-84
Embedment 3-3-152
Embedment soil 3-3-156
End restrained 2-5-64
End thrust 2-5-65
Environmental multiplier 2-9-126
ESCR 1-3-18, 1-4-21
Euler's equation 2-5-65
Excavation 3-3-152, 3-4-181
Excess water 3-3-155
Expansion 1-1-6, 2-5-64
Expansion joint 2-5-75
Expansion loop 2-5-67, 2-5-73
External hydraulic pressure 2-9-123
External load 2-9-123
External pressure resistance 2-9-124
Extrusion welding 3-2-147

F

Fabricated fitting 3-2-150

Index (Book-Chapter-Page)

Fatigue 2-4-50
Fitting and valve friction loss 2-4-46
Fitting head loss 2-4-47
Fitting coefficient, K' 2-4-47
Fitting factor 3-3-159
Flange 2-5-68, 3-2-141
Flange adapter 3-2-141
Flange bolting 3-2-143
Flange dimension 3-2-143
Flange foundation 3-2-144
Flange installation 3-2-144
Flange support 3-2-145, 3-3-159
Float 2-8-115, 3-3-177
Float submergence 3-3-178
Floating pipeline 3-3-177
Flotation 2-8-115
Flow velocities 2-4-52
Flow velocity 2-4-52
FM 1-2-8
Forklift load capacity 3-1-133
Foundation 3-2-144
Friction factor 2-4-48
Friction losses 2-4-46
Frictional resistance of soil 2-8-118, 2-8-122
Frozen pipes 2-4-43, 3-5-185
Fully restrained connections 3-2-138

G

Gas flow 2-4-60
Gas permeation 2-4-62
Gasket 3-2-142
Gasket material 3-2-143
Gasket styles 3-2-143

Grade 2-6-77
Gravity flow 2-4-52
Groundwater flotation 2-8-115
Grout 2-9-123
Grouting 2-9-123
Guide 3-2-148
Guillotine shears 3-2-137

H

H20 highway loading 2-7-90
Handling 1-1-3, 3-1-129
Handling equipment 3-1-132
Handsaw 3-2-138
Hanger 2-6-77, 3-3-176
Hardness 1-3-19
Hartley 2-7-109
Haunching 3-3-153
Hazen-Williams 2-4-47
HDB 2-2-40, 2-3-41
HDD 3-3-164
HDS 1-4-22, 2-3-42
Head loss 2-4-60
Heat fusion 3-2-138
Heat traced 2-5-76
Heat transfer 2-5-76
High-pressure formula 2-4-60
Highway load 2-7-90
Hole saw 3-2-138
Holl's integration 2-7-93
Horizontal boring 3-3-163
Horizontal directional drilling 3-3-164
Hot air welding 3-2-149
Hot gas welding 3-2-149

Index (Book-Chapter-Page)

Howard 2-7-108
HS20 highway load 2-7-91
Hydraulics 1-1-5, 2-9-123
Hydrocarbon contamination 1-5-26
Hydrostatic design basis 2-2-40
Hydrostatic design stress 1-4-22, 2-3-42

I

IAPMO 1-2-8, 1-6-35
ID stiffener 1-3-16
IDR 2-3-41
IGT distribution equation 2-4-61
Impact 1-3-16
Inclement weather 3-1-136
Initial backfill 3-3-153
Insert fitting 3-2-151, 3-3-169
Insertion 3-3-164
Inspection 3-1-129, 3-4-181
Installation 3-3-152
Installing fabricated fittings 3-3-156
Insulated 2-5-76
Iowa formula 2-7-107
IPS 1-1-2, 1-2-7, 2-6-80

J

Jacking 3-3-170
Janson 2-7-108
Joining 3-2-137
Joint anchoring 3-3-158

K

Kinks 3-5-187

L

Lag factor 2-7-110
Lateral deflection 2-5-66
Laying lengths 2-1-39
Leak testing 3-4-184
Leak tightness 1-1-5, 3-2-137
Lifting lug 3-1-133
Load inspection 3-1-131
Locating wire 3-3-160
Long-term strength 1-4-20
Low-pressure formulas 2-4-61

M

Manhole 2-8-117
Manhole connection 3-2-149
Manning 2-4-52
Marine 3-3-176
Marston 2-7-83
Material designation code 1-4-22
Material safety data sheet 1-5-26
Mechanical joint 3-2-145
Melt flow rate 1-3-13
Melt index 1-3-13
Minimum cover depth 2-7-90
Misaligned flange 3-2-144
MJ adapter 3-2-146
Modality 1-3-13
Modulus 2-5-65
Molecular orientation 1-3-17
Molecular weight 1-3-13
Molecular weight distribution 1-3-13
Moody 2-4-44
Moody diagram 2-4-46

Index (Book-Chapter-Page)

MSDS 1-5-26

Mueller equation 2-4-60

N

n (Manning) 2-4-52

Negative buoyancy 2-9-127

Neutral buoyancy 2-9-126

Non-pressure piping 3-2-151

NSF 1-2-8, 1-6-35

O

OD controlled pipe 2-9-126, 3-2-137

Order acknowledgment 3-1-131

Organizations 1-6-35

OSHA 3-3-154

Outdoor storage 3-1-135

Ovality 2-7-103

Ovality compensation factor 2-7-104

P

Packing list 3-1-131

Pallets 3-1-130

Partially restrained joint 3-2-146

Particle size 2-4-59

Passive resistance 2-7-81

Performance pipe 1-2-7

Permeability constant 2-4-62

Permeation 1-3-19

Physical properties of gases 2-4-63

Pig 3-5-185

Pigging 3-5-185

Pigmentation 1-3-12

Pipe bursting 3-3-172

Pipe cutters 3-2-138

Pipe deflection 2-7-112, 2-9-123

Pipe rack 2-6-79

Pipe stacking height 3-1-135

Pipe threads 3-2-148

Pipe weight conversion factor 2-9-127

Pipeline hangers 2-6-77

Pipeline supports 2-6-77

Placing pipe in the trench 3-3-155

Planting 3-3-161

Plexco 1-2-8

Plowing 3-3-161

Pneumatic transport 2-4-43

Point load 2-7-92

Poisson's ratio 2-7-96, 2-9-123

Polymerization 1-3-11

Pressure rating 1-1-4

Pressure surge 2-4-49

Pressure wave 2-4-49

Prism load 2-7-82

Product identification 3-1-130

Product packaging 3-1-129

Publications 1-6-37

Pull-in 3-3-163

Pulling head 3-3-169

Pulling stress 3-3-162

Pulling-in 3-3-162

Push-in 3-3-169

R

Radial compressive loads 2-7-100

Railroad loads 2-7-99

Receiving inspection 3-1-129

Receiving report 3-1-132

Index (Book-Chapter-Page)

- Rehabilitation 3-3-164, 3-3-172
Repair 3-5-187
Reporting damage 3-1-132
Resistance coefficient, K 2-4-47
Restrained joint 3-2-146
Retightening 3-2-145
Reynolds number 2-4-44
Rigid pavement 2-7-91
Ring bending strain 2-7-112
Ring deflection 2-7-107
Ring stiffness constant 2-7-100
Riser 2-8-120
RSC 2-7-81, 3-1-130
RUS 1-2-8
Rust 1-1-4, 1-5-24
- S**
- Saddle fusion 3-2-139
Safe handling 3-1-132, 3-3-152
Safety 2-7-104, 2-8-119, 3-3-152
Safety codes 3-3-152
SCG 1-3-18
SDR 2-3-41, 2-5-69
Serrated flange sealing surface 3-2-142
Service saddle 3-2-150
Set-up time 3-2-140
Sewer 1-2-8, 2-1-39, 2-4-54
Shallow cover 2-7-112
Shear 3-3-159
SIDR 2-3-41
Silo pack 3-1-129
Sleepers 2-5-68, 2-6-77
Slings 3-1-132, 3-3-169
Slipliner 2-4-54
Sliplining 3-3-164, 3-3-170
Slow crack growth 1-3-18
Slurry 2-4-55, 2-4-58
Smoke tarps 3-1-131
Snaking 1-1-6, 2-5-64
Socket fusion 3-2-139
Soil classification 3-3-157
Soil densities 2-8-115
Soil friction 2-5-75
Soil prism 2-7-82
Soil reaction modulus E' 2-7-108
Soil shear 2-7-82
Soil test 3-4-181
Soil weight 2-8-120
Solids concentration 2-4-56, 2-4-58
Solvents 1-5-26
Spacer 3-2-145, 3-3-163
Spangler 2-7-107
Spangler's modified iowa formula 2-7-107
Specific gravity 2-4-56, 2-4-58
Specific weight 2-8-116, 2-9-126
Spitzglass equation 2-4-61
Split back-up ring 3-3-164
Squeeze-off 3-5-186
Stacking height 3-1-135
Standards 1-6-35
Standard Proctor density 3-3-155
Static electricity 3-5-186
Steam service 2-4-43
Stiffness 1-3-16
Storage 3-1-129

Index (Book-Chapter-Page)

- Strain 2-5-68
- Stress crack resistance 1-3-18, 1-5-24
- Stress rated materials 2-2-40
- Strip load 3-1-131
- Strutting 3-3-170
- Stub end 3-2-142
- Stubout 2-8-117
- Submergence factor 3-3-179
- Submergence margin 3-3-179
- Submergence weighting 2-9-126
- Sunlight 1-5-24
- Support spacing 2-6-78
- Surcharge loads 2-7-81, 3-3-160
- Surface cleaning 1-5-25
- Surface damage 3-4-183
- Surface flange bending protection 3-3-173
- Surface installation 3-3-172
- Surface roughness 2-4-44
- Surface tee bending protection 3-3-173
- Surge allowance 2-4-50
- Surge delay 2-4-51
- T**
- Tamping tool 3-3-158
- Tanks 3-1-133
- Tapping sleeve 3-2-151
- Tapping tee 3-2-150
- Tensile strength 1-3-16
- Testing 3-4-181
- Thermal conductivity 2-5-76
- Thermal effects 1-5-25
- Thermal resistance 2-5-76
- Thermal stabilizers 3-1-135
- Thermal welding 3-2-137
- Third party certification 1-2-7
- Thrust block 2-5-75
- Thrust reaction load 3-3-158
- Tidal flows 2-1-38, 2-9-126
- Tight-fitting liner 3-3-164
- Timoshenko's method 2-7-99
- Torque 3-2-145
- Transitions 1-4-22, 2-5-70, 3-2-148
- Trench 3-3-154
- Trench box 3-3-154
- Trench width 3-3-153
- Trenching 3-3-153, 3-3-172
- Trenchless rehabilitation 3-3-172
- Truckload 3-1-129
- Tuberculate 1-1-4, 2-4-55
- Turbulent flow 2-4-45
- TV 3-3-166, 3-4-181
- U**
- Ultrasonic inspection 3-4-181
- Ultraviolet light 1-5-24
- Underground installation 3-3-152
- Underwater installation 2-9-123
- Unloading instructions 3-1-132
- Unloading site 3-1-132
- Unrestrained 2-5-64, 3-2-147
- Unrestrained joining 3-2-147
- Unrestrained joint 3-2-147
- Unstable trench 3-3-155
- UV 3-1-135

UV stabilizers 3-1-135

V

Vacuum 2-4-44

Vehicular loads 2-7-90

Velocity 1-1-5, 2-4-43

Viscosity 1-3-16

Voids 2-7-82

W

Wall profiles 1-2-7, 2-1-39

Wall strain 2-7-111

Wall thickness 2-1-38

Water environment 2-9-123

Water hammer 2-4-49

Water-jet 3-5-185

Weather 1-3-15, 3-1-135

Web slings 3-1-132

Weight shapes 2-9-128

Weymouth equation 2-4-60

Wheel load 2-7-93

Wire rope slings 3-1-133

Working pressure rating 2-4-51

X

X-ray 3-4-181

Y

Yield strength 3-3-162