

Contents

Foreword	ix	Biological Engineering	282
Preface	x	Greenhouses	284
BASICS		Ponds and Pools	286
Abbreviations and symbols	1	External Works – Example	289
Units	2	RESIDENTIAL BUILDINGS	
Drawings	4	Basics	290
Accessible Building	21	Urban Development	293
Dimensional Basics and Relationships	27	Access	294
Visual Perception	37	Residential Buildings	298
DESIGN PROCESS		Floor Plan Concepts	299
Design	40	Rooms	312
Materials and Design	44	GATHERINGS	
Design	52	Basics	331
Sustainable Building	53	ACCOMMODATION	
Certification	55	Student Residences	336
Facility Management	56	Elderly People's Accommodation	337
Refurbishment	58	Hotels	340
Design and Construction Management	64	Catering	346
BUILDING COMPONENTS		Youth Hostels	356
Foundations	75	Holiday/Weekend Homes	357
Walls	83	Camping	358
Floor Slabs	89	EDUCATION AND RESEARCH	
Roofs	94	Children's Daycare	359
Windows	105	Playgrounds	362
Glass	113	Schools	364
Doors	122	Universities and Colleges	375
Stairs	129	Libraries	384
Escalators	135	RELIGIOUS BUILDINGS	
Moving Walkways	136	Christian Churches	390
Lifts	137	Synagogues	394
BUILDING SERVICES		Mosques	396
Renewable Energy	143	CULTURAL VENUES	
Building Physics	149	Museums and Art Galleries	399
Daylight	166	Theatres	403
Artificial Lighting	177	Concert Halls	413
Lighting	183	Cinemas	416
Fire Protection	188	AV Studios	421
Domestic Installation	198	Circus	423
Supply and Disposal	212	Zoos	424
Chimneys and Ventilation Shafts	219	SPORT AND LEISURE	
TRANSPORT		Stadiums	427
Roads	222	Sports Facilities	430
Parking Facilities	231	Sports Halls	460
Public Transport	247	Swimming Pools	472
Railways	252	Spa	482
Aviation	259	Amusement Arcades	485
EXTERNAL WORKS		WORK	
Cemeteries	265	Basics	486
Landscape Architecture	268	ADMINISTRATION AND OFFICES	
Trees	269	Office Buildings	493
Urban Trees	270	High-Rise Buildings	507
Earthworks	271	Parliamentary Buildings	510
Garden Enclosures	273	Banks	513
Pergola and Trellis	275		
Paths, Paving, Steps	278		
Drainage	279		
Vegetation	280		

RETAIL

Retail Outlets 514

INDUSTRY AND TRADE

Industry..... 522

Workshops 531

AGRICULTURE

Farmyards 542

Animal Husbandry 548

HEALTH

Doctors' Practices..... 558

Hospitals 559

REFERENCES, BIBLIOGRAPHY AND INDEX

References587

BIS and DIN standards594

Conversion of units600

Bibliography621

Index.....624