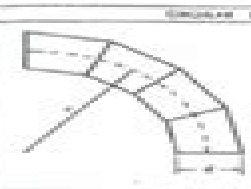
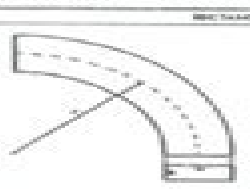
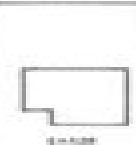




















CIBSE GUIDE C

FLOW OF FLUIDS

147

TABLE C4.25 Velocity pressure loss factors for duct fittings — continued

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Notes to Table C4.25.

Duct angle

Where bends have through angles of less than 90°, the pressure loss factors may be presumed to vary in the proportion $\sin^2 \alpha / \sin^2 90^\circ$ unless stated otherwise.

Changes of shape (contraction)

For tapered changes of shape where $\theta < 90^\circ$ and $A_1 = A_2$, the

Notes

Where straight ducts form splines, the straight duct sections between adjacent splines should be considered.

Application

The values for the pressure loss factors quoted here assume that the approaching velocity profile is regular. Any irregularity or disturbance may increase or decrease the loss.

Comments

For rectangular ducts, the hydraulic mean diameter is given by

Cibse Guide C

A Gutmann



Cibse Guide C:

CIBSE Guide C: Reference Data Cibse, Cibse, 2007-06-07 Guide C Reference Data contains the basic physical data and calculations which form the crucial part of building services engineer background reference material Expanded and updated throughout the book contains sections on the properties of humid air water and steam on heat transfer the flow of fluids in pipes and ducts and fuels and combustion ending with a comprehensive section on units mathematical and miscellaneous data There are extensive and easy to follow tables and graphs *CIBSE Guide. Volume C* Chartered Institution of Building Services Engineers, 1974 *European Building Construction Illustrated* Francis D. K. Ching, Mark Mulville, 2014-02-10 The first European edition of Francis DK Ching's classic visual guide to the basics of building construction For nearly four decades the US publication *Building Construction Illustrated* has offered an outstanding introduction to the principles of building construction This new European edition focuses on the construction methods most commonly used in Europe referring largely to UK Building Regulations overlaid with British and European while applying Francis DK Ching's clear graphic signature style It provides a coherent and essential primer presenting all of the basic concepts underlying building construction and equipping readers with useful guidelines for approaching any new materials or techniques they may encounter *European Building Construction Illustrated* provides a comprehensive and lucid presentation of everything from foundations and floor systems to finish work Laying out the material and structural choices available it provides a full understanding of how these choices affect a building's form and dimensions Complete with more than 1000 illustrations the book moves through each of the key stages of the design process from site selection to building components mechanical systems and finishes Illustrated throughout with clear and accurate drawings that effectively communicate construction processes and materials Provides an overview of the mainstream construction methods used in Europe Based around the UK regulatory framework the book refers to European level regulations where appropriate References leading environmental assessment methods of BREEAM and LEED while outlining the Passive House Standard Includes emerging construction methods driven by the sustainability agenda such as structural insulated panels and insulating concrete formwork Features a chapter dedicated to construction in the Middle East focusing on the Gulf States **Heating Services in Buildings** David E. Watkins, 2011-09-26 Water based heating systems are efficient flexible versatile and offer many advantages over other heating systems These advantages fast response good controllability efficient zonal heating and largely silent operation all require that initial design installation commissioning and maintenance be carried out to a high standard by competent engineers *Heating Services in Buildings* provides the reader with a detailed and thorough understanding of the principles and elements of heating buildings using modern water based heating systems A key theme of the book is that there is little difference in the approach to the design and engineering between domestic and commercial installations The author's detailed but highly practical approach to the subject ensures there is sufficient information for students from both a craft

background and those with more academic backgrounds to understand the material This approach is complemented by straightforward easy to use diagrams Heating Services in Buildings supports a range of educational courses including degree level building services engineering NVQ Level 4 Higher Professional Diploma in Building Services Engineering City Guilds supplementary heating course and the Heating Design and Installation Course accredited by the European Registration Scheme ERS

The City & Guilds Textbook: Plumbing Book 2, Second Edition: For the Level 3 Apprenticeship (9189), Level 3 Advanced Technical Diploma (8202), Level 3 Diploma (6035) & T Level Occupational Specialisms (8710) Peter Tanner, Stephen Lane, 2022-05-27 Equip your learners with the tools for success in a career as a plumber with this comprehensive and updated edition of our bestselling textbook published in association with City Guilds The newly updated and fully revised second edition will help learners Study with confidence covering all core content for the 6035 9189 and 8202 specifications as well as the 355 and 356 plumbing and heating T Level occupational specialisms Target their learning with detailed qualification mapping grids Get to grips with technical content presented in accessible language Enhance their understanding of plumbing practice with clear and accurate illustrations and diagrams demonstrating the technical skills they need to master Practise maths and English in context with embedded Improve your maths and Improve your English activities Test their knowledge with end of chapter practice questions and practical tasks Prepare for the workplace with up to date information on relevant key regulations and industry standards Keep their knowledge current with clear coverage of major modern cold water hot water central heating sanitation rainwater systems and environmental technologies

Air Conditioning David Chadderton, 2014-05-09 David Chadderton s Air Conditioning is the complete introduction and reference guide for students and practitioners of air conditioning design installation and maintenance The scientific principles involved are introduced with the help of case studies and exercises and downloadable spreadsheets help you work through important calculations New chapters on peak summertime air temperature in buildings without cooling systems air duct acoustic calculations and air conditioning system cost enhance the usefulness to design engineers Case studies are created from real life data including PROBE post occupancy reports relating all of the theoretical explanations to current practice Trends and recent applications in lowering energy use by air conditioning are also addressed keeping the reader informed of the latest sustainable air conditioning technologies Over 75 multiple choice questions will help the reader check on their progress Covering both tropical and temperate climates this is the ideal book for those learning about the basic principles of air conditioning seeking to understand the latest technological developments or maintaining a successful HVAC practice anywhere in the world

Designing Zero Carbon Buildings Using Dynamic Simulation Methods Ljubomir Jankovic, 2017-06-23 In addition to the application of fundamental principles that lead to a structured method for zero carbon design of buildings this considerably expanded second edition includes new advanced topics on multi objective optimisation reverse modelling reduction of the simulation performance gap predictive control nature inspired emergent simulation

leading to sketches that become alive and an alternative economics for achieving the sustainability paradigm The book features student design work from a Master s programme run by the author and their design speculation for a human settlement on Mars Tasks for simple simulation experiments are available for the majority of topics providing the material for classroom exercise and giving the reader an easy introduction into the field Extended new case studies of zero carbon buildings are featured in the book including schemes from Japan China Germany Denmark and the UK and provide the reader with an enhanced design toolbox to stimulate their own design thinking **Building Services Journal** ,2007 **Air Conditioning Systems** Roger Colby Legg,1991 The efficient use of energy resources both for economic and environmental reasons will remain a top priority for the foreseeable future Roger Legg s comprehensive treatment of air conditioning systems is devoted to ensuring that when installed they not only meet their design criteria but maximize energy efficiency *Engineer's Year-book of Formulae, Rules, Tables, Data & Memoranda* ,1999 **Schools' Environmental Assessment Method (SEAM)**. Great Britain. Department for Education and Employment. Architects & Building Branch,1996 With inserted Certificate of achievement 1p **American Book Publishing Record** ,2002 **Standards in the Museum Care of Musical Instruments 1995** Great Britain. Museums and Galleries Commission,1995 *Building in Steel 1991* ,1991 **Kempe's Engineers Year-book** ,2002 Conference Proceedings, Green Building Challenge '98 Canada. Natural Resources Canada,1998 Information Sources in Architecture and Construction Valerie J. Nurcombe,1996 The new edition first 1983 comprises 24 chapters each written by an expert in the field who describes sources and in addition provides instructions in methodology and hints on keeping up with advances in information Coverage includes architectural history conservation contracts and liability **Low-E Glazing Design Guide** Timothy Edward Johnson,1991 This book outlines all the factors to be taken into consideration when using low e glazings including energy thermal and visual comfort issues Product comparisons and listings by new performance indices make it easier for the practitioner to choose the correct glazing This book offers both the designer and specifier a comprehensive reference on this new technology **Electrical Engineer's Reference Book** Gordon Rees Jones,1993 The Electrical Engineer s Reference Book 15th edition long established as an ideal reference has been revised and includes complete rearrangement to take in chapters on new topics and regroup the subjects covered for easy access to information **Architectural Science Review** ,2001

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