

## High Mast Light Pole Foundation Design

High Mast Light Pole Foundation Design is generally undertaken in the same manner as any concrete spread or pad foundation. The principle is to make the foundation large enough so that the overturning moment does not exceed the maximum bearing capacity of the soil.

As high mast light poles are standard fixtures they are often designed using standard foundation types which depend on the size of the mast and its location. The High Mast Light Pole Design Spreadsheet includes a unique High Mast Light Pole Foundation Design Spreadsheet which allows the user to specify a suitable high mast lighting foundation in seconds, from one of three typical high mast foundation design types.

The overturning moment depends on the height of the mast, the size and number of lanterns and on the location. This is explained in detail on our High Mast Wind Loading and High Mast Light Pole Wind Pressure pages.

### Soil Allowable Maximum Bearing Capacity

High mast pole foundation design is usually based on the assumption that the underlying soil will not fail if the foundation limits the bearing pressure to a set value called the allowable maximum bearing capacity. The maximum bearing capacity of the soil is the pressure at which the soil starts to fail. This is a critical parameter and must be ascertained before detailed high mast lighting foundation design can begin. The bearing capacity of a soil can only be determined from site tests such as plate bearing tests, CPTs or SPTs. This should be undertaken by a suitable qualified civil or geotechnical engineer.

For preliminary design there have been a number of very general guidelines for the design of high mast pole foundations which include standard designs based on one or two assumed values for the allowable maximum bearing pressure. Below is one example taken from the Abacus High Mast lighting foundation design brochure.

These values are only for use in preliminary design and the bearing capacity must be checked with site measurements before detailed design is done. However this does give a handy guide for preliminary high mast light pole foundation design.

Types of subsoil	Condition of subsoil	Field test applicable	Approximate allowance bearing pressure kN/m <sup>2</sup>
Rock	Not inferior to sandstone, limestone or firm chalk	Requires at least a pneumatic or other mechanically-operated pick for excavation	1000
Gravel, sand	Compact	Requires pick for excavation. Wooden peg 50mm <sup>2</sup> in cross section is hard to drive beyond 150mm	Dense to very dense 150-400 Loose to medium dense 50-250
Clay, sandy clay	Firm	Can be moulded by substantial pressure with the fingers and excavated with graft or spade	50-100
Sand*, silty sand*, clayey sand*	Loose	Can be excavated with a spade. Wooden peg 50mm <sup>2</sup> in cross section can be easily driven	<75
Silt*, clay*, sandy clay*, silty clay*	Soft	Fairly easily moulded with the fingers and readily excavated	<75
Silt*, clay*, sandy clay*, silty clay*	Very soft	Natural sample in winter conditions exudes between fingers when squeezed in fist	<75

# Concrete Foundation Design Manual

**Pamela Buxton**



## **Concrete Foundation Design Manual:**

Structural Foundation Designers' Manual W. G. Curtin, Gerry Shaw, Gary Parkinson, J. Golding, Norman Seward, 2008-04-15 This manual for civil and structural engineers aims to simplify as much as possible a complex subject which is often treated too theoretically by explaining in a practical way how to provide uncomplicated buildable and economical foundations It explains simply clearly and with numerous worked examples how economic foundation design is achieved It deals with both straightforward and difficult sites following the process through site investigation foundation selection and finally design The book includes chapters on many aspects of foundation engineering that most other books avoid including filled and contaminated sites mining and other man made conditions features a step by step procedure for the design of lightweight and flexible rafts to fill the gap in guidance in this much neglected yet extremely economical foundation solution concentrates on foundations for building structures rather than the larger civil engineering foundations includes many innovative and economic solutions developed and used by the authors practice but not often covered in other publications provides an extensive series of appendices as a valuable reference source For the Second Edition the chapter on contaminated and derelict sites has been updated to take account of the latest guidelines on the subject including BS 10175 Elsewhere throughout the book references have been updated to take account of the latest technical publications and relevant British Standards

**Building Foundation Design Handbook** University of Minnesota. Underground Space Center, United States. Department of Energy, 1988

Structural Foundations Manual for Low-Rise Buildings Michael Atkinson, 2020-11-25 This book provides practical and buildable solutions for the design of foundations for housing and other low rise buildings especially those on abnormal or poor ground A wealth of expert information and advice is brought together dealing with the key aspects a designer must consider in order to achieve effective and economic foundation designs This second edition of Structural Foundations Manual for Low Rise Buildings has been completely updated in line with the new government guidelines on contaminated land and brown field sites The book includes well detailed design solutions and calculations actual case histories illustrations design charts and check lists making it a user friendly reference for contractors structural engineers architects and students who have to deal with foundations for low rise buildings on sites with difficult ground conditions

*Foundation Engineering Handbook* Robert Day, 2005-12-12 This practical resource focuses on foundation engineering emphasizing the geotechnical aspects and the use of the International Building Code R Develop a complete program of foundation investigation Deal with geotechnical field and laboratory studies Analyze data for the design of foundations Carry out an engineering evaluation of foundation construction Prepare foundation engineering reports

Metric Handbook Pamela Buxton, 2018-02-23 Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over 100 000 copies sold to successive generations of architects and designers This book

belongs in every design office The Metric Handbook is the major handbook of planning and design data for architects and architecture students Covering basic design data for all the major building types it is the ideal starting point for any project For each building type the book gives the basic design requirements and all the principal dimensional data and succinct guidance on how to use the information and what regulations the designer needs to be aware of As well as buildings the Metric Handbook deals with broader aspects of design such as materials acoustics and lighting and general design data on human dimensions and space requirements The Metric Handbook is the unique reference for solving everyday planning problems

Foundation Engineering Handbook 2/E Robert W. Day, 2010-09-13 A fully up to date practical guide to foundation engineering Revised to cover the 2009 International Building Code Foundation Engineering Handbook Second Edition presents basic geotechnical field and laboratory studies such as subsurface exploration and laboratory testing of soil rock and groundwater samples The book then discusses the geotechnical aspects of foundation engineering including conditions commonly encountered by design engineers settlement expansive soil and slope stability Details on the performance or engineering evaluation of foundation construction and the application of the 2009 International Building Code are included in this valuable resource FOUNDATION ENGINEERING HANDBOOK SECOND EDITION COVERS Subsurface exploration Laboratory testing Soil mechanics Shallow and deep foundations Bearing capacity and settlement of foundations Foundations on expansive soil Slope stability Retaining walls Foundation deterioration and cracking Geotechnical earthquake engineering for soils foundations and retaining walls Grading and other soil improvement methods Foundation excavation underpinning and field load tests Geosynthetics and instrumentation 2009 International Building Code regulations for soils and foundations

*The Engineering Manual of the American Electric Railway Engineering Association, Covering Its Standards, Recommendations and Miscellaneous Methods and Practices* American Electric Railway Engineering Association, 1922

Practical Foundation Engineering Handbook Robert Wade Brown, 2001 Filled with handy illustrations charts tables and case study examples this book offers proven expert design alternatives for even substandard soil and challenging site conditions with example problems for any type of structure

Structural Foundation Designers Manual William George Curtin, 1994 This book is based on over 30 years intensive practical experience As a designers manual its aim is to simplify as much as possible a complex subject which is often treated too theoretically by providing simple buildable and economical foundations It explains simply clearly and with numerous worked examples how economic foundation design is achieved It deals with both straightforward and difficult sites following the process through site investigation foundation selection and finally design The book includes chapters on many of the aspects of foundation engineering that most other books avoid including filled and contaminated sites mining and other man made conditions that are all too frequently encountered A step by step procedure for the design of lightweight and flexible rafts is provided to fill the gap in guidance on this much neglected yet extremely economical foundation solution The book concentrates on foundations for building

structures rather than the larger civil engineering foundations and includes many innovative and economic solutions developed and used by the authors practice but not often covered in other publications An extensive series of appendices completes the book providing a valuable source of reference Written by practising engineers for practising engineers it draws on Curtins wide experience in the field and will be a worthy companion to their Structural Masonry Designers Manual also published by Blackwell Scientific Publications      **Structural Foundation Designers' Manual** Norman

Seward,2012-11-15 This manual for civil and structural engineers aims to simplify the design of structural foundations as much as possible Structured around the typical design process through site investigation foundation selection and finally design it explains clearly with numerous worked examples how economic foundation design can be achieved in both straightforward and difficult sites Fully updated to ensure compliance with Eurocodes the Structural Foundation Designers Manual includes chapters on many aspects of foundation engineering that other books avoid including filled and contaminated sites and mining and other man made conditions features a step by step procedure for the design of lightweight and flexible rafts to fill the gap in guidance in this extremely economical foundation solution concentrates on foundations for building structures rather than the larger civil engineering foundations includes many innovative and economic solutions developed and used by the authors practice but not often covered in other publications provides an extensive series of appendices as a valuable reference source      Forensic Geotechnical and Foundation Engineering Robert W. Day,1999 Learn how to conduct a professional forensic geotechnical and foundation investigation Clearly written and easy to use this authoritative book shows you step by step how to INVESTIGATE damage deterioration or collapse in a structure EVALUATE problems caused by settlement expansive soil slope movement moisture intrusion and more INVESTIGATE damage from earthquakes and other natural causes DETERMINE what caused the damage DEVELOP repair recommendations PREPARE files and reports AVOID civil liability No matter what caused the structural damage this book will help you pinpoint it and if necessary suggest a remedy With advice on all aspects of the process from accepting the assignment to testifying compellingly this book is your all in one guide to geotechnical and foundation investigations in forensic engineering      **Progress in Civil Engineering** Ming Jin Chu,Xiang Ran Li,Jing Zhou Lu,Xing Min Hou,Xiao Gang Wang,2012-05-14 Selected peer reviewed papers from the 2nd International Conference on Civil Engineering Architecture and Building Materials CEABM 2012 May 25 27 2012 Yantai China      Foundation Design N. S. V. Kameswara Rao,2010-12-30 In Foundation Design Theory and Practice Professor N S V Kameswara Rao covers the key aspects of the subject including principles of testing interpretation analysis soil structure interaction modeling construction guidelines and applications to rational design Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own Throughout the book the emphasis is on practical application training readers in actual design procedures using the latest codes and standards in use throughout the world Presents updated design procedures in light of

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Engineering and Contracting, 1914      **Footings Manual: Pre-designed Foundation and Anchorage for Single Story Buildings** Gilliam Harris, Robert Paullus, 2015-12-30 Complete shovel ready construction plans and design information for single story footings and foundations of any size using any materials Single story buildings often have shallow foundations called footings that transfer weight to the ground Engineers must design these footings along with a reinforced concrete foundation This is an arduous process requiring a great deal of time and many complex calculations Footings Manual Pre designed Foundations and Anchorage for Single Story Buildings simplifies this process and helps save you time and money while increasing efficiency and quality This practical guide offers pre calculated design tables and ready to build construction plans all requiring minimal to no math Materials specs are included to assist you in accurate budgeting and estimating All plans include data for multiple concrete strengths and varying loads not just gravity and are applicable to single story structures of any size You'll also get soil data welding information and design aides for reinforcing bars Features pre calculated tables diagrams and ready to build plans All data is based on the latest 2015 International Building Code Designs include options for multiple strengths of concrete and for all types of loads      *Foundation Repair Manual* Robert Wade Brown, 1999 The 1 guide to foundation repair This book offers the most authoritative source of information on repairing damaged foundations with excellent advice on maintenance and preventative measures designed to avoid the need for repair You get state of the art methods in foundation repair clear guidance on choosing the right methods for the job up to date techniques for preventing evaluating and reversing damage from expansive soils expert instruction in hands on techniques such as shimming interior pier caps and underpinning perimeter beams help with mudjacking deep pressure grouting and chemical stabilization foundation troubleshooting tips preventative measures including drainage moisture barriers and vegetation control establishing the need for repair plus help with estimates      **Engineering & Contracting**, 1916

*Structural Engineering Handbook, Fifth Edition* Mustafa Mahamid, Edwin H. Gaylord, Charles N. Gaylord, 2020-04-17  
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Bulletin: Bridge manual, 1916 Oregon State Highway Commission, 1916

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