Space Structures: Principles and Practice

Description: Space Structures are economical and aesthetically pleasing in appearance. They provide a unique solution for covering large column free areas. This book gives a state of the art presentation of the analysis, design and construction of space structures. The author synthesizes data currently available with his original and exhaustive research to produce the definitive book on space structures.

Principal features and topics of the book include:

- Analysis, design and construction of various types of space structures
- Nodes and jointing systems
- Approximate methods of analysis
- Concepts are explained through over 400 figures, 90 photographs and 35 tables
- An extensive bibliography, over 1000 references in total

This book is appropriate for university level architecture / building science / civil engineering departmental libraries. Postgraduate students and academics, as well as practising architects and engineers will find much of value in this comprehensive work.

Contents:

Foreword Preface Acknowledgement

1. Introduction
   General, Definition of Space Structures, Historical Developments, Types of Space Structures, Materials Used in Space Frames, Advantages and Disadvantages, Practical Difficulties, References

2. Single and multi-layer grids

3. Braced domes
   Introduction, Materials for Braced Domes, Functional Applications of Domes, Basic Geometries of Domes, Types of Braced Domes, Ribbed Domes, Schwedler Domes, Stiff-Jointed Framed Domes, Plate Type Domes, Network Domes, Zimmermann Domes, Lamella Domes, Geodesic Domes, Grid Domes, Improving the Buckling Behaviour of Single Layer Domes, Double Layer Domes, Search for the Optimum Type of Braced Dome, Timber Domes, Stressed Skin Domes, Some Outstanding Domes, Ice Domes, Freedome® Structures, Wind Loading on Domes, Low Cost Housing, Cladding, Erection, References

4. Braced folded structures
   Introduction, Steel Frame Folded Plate Roofs, Baer's Approximate Method, Behaviour of Steel Frame Folded Plate Roofs, Braced Barrel Vaults, Behaviour of Braced Barrel Vaults, Practical Considerations, Practical Examples, References

5. Connectors

6. Stressed skin systems
   Introduction, Stressed Skin Steel Buildings, Stressed Skin Grids, Stressed Skin Domes and Folded Plate Structures, References

7. Cable suspended roof structures
   Introduction, Components of Suspended Roofs, Types of Cable Network Systems, Shapes of Cable
Ordering:

Order Online - http://www.researchandmarkets.com/reports/480722/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Space Structures: Principles and Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address</td>
<td><a href="http://www.researchandmarkets.com/reports/480722/">http://www.researchandmarkets.com/reports/480722/</a></td>
</tr>
<tr>
<td>Office Code</td>
<td>SCISPV3N</td>
</tr>
</tbody>
</table>

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy:</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address:</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp