Joining of Materials and Structures

Description: Joining of Materials and Structures is the first and only complete and highly readable treatment of the options for joining conventional materials and the structures they comprise in conventional and unconventional ways, and for joining emerging materials and structures in novel ways. Joining by mechanical fasteners, integral designed-or formed-in features, adhesives, welding, brazing, soldering, thermal spraying, and hybrid processes are addressed as processes and technologies, as are issues associated with the joining of metals, ceramics (including cement and concrete) glass, plastics, and composites (including wood), as well as, for the first time anywhere, living tissue.

While focused on materials issues, issues related to joint design, production processing, quality assurance, process economics, and joint performance in service are not ignored. The book is written for engineers, from an in-training student to a seasoned practitioner by an engineer who chose to teach after years of practice. By reading and referring to this book, the solutions to joining problems will be within one's grasp.

Key Features:
Unprecedented coverage of all joining options (from lashings to lasers) in 10 chapters
Uniquely complete coverage of all materials, including living tissues, in 6 chapters
Richly illustrated with 76 photographs and 233 illustrations or plots
Practice Questions and Problems for use as a text of for reviewing to aid for comprehension
Coverage all of major joining technologies, including welding, soldering, brazing, adhesive and cement bonding, pressure fusion, riveting, bolting, snap-fits, and more
Organized by both joining techniques and materials types, including metals, non-metals, ceramics and glasses, composites, biomaterials, and living tissue
An ideal reference for design engineers, students, package and product designers, manufacturers, machinists, materials scientists

Contents:
Introduction to Joining: A Process and a Technology
Mechanical Joining
Mechanical Fasteners, Integral Attachments, & Other Mechanical Joining Methods
Adhesive Bonding & Cementing
Adhesives, Cements, Mortars, and the Bonding Process
Welding as a Joining Process
The Basics of Welding Metallurgy
Brazing: A Subclassification of Welding
Soldering: A Subset of Brazing
Other Joining Processes: Variants & Hybrids
Joining Metals, Alloys, and Internetallics
Joining of Ceramics and Glasses
Joining of Polmeric Materials
Joining Composite Materials and Structures
Joining Dissimilar Material Combinations
Joining Structures and Living Tissue.

Ordering:
Order Online - http://www.researchandmarkets.com/reports/1767189/
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,
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 and select the format(s) you require.

Product Name: Joining of Materials and Structures
Web Address: http://www.researchandmarkets.com/reports/1767189/
Office Code: SC6I51SP

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Format</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy (Hard Back)</td>
<td>USD 170 + USD 29 Shipping/Handling</td>
<td></td>
</tr>
<tr>
<td>Hard Copy (Paper back)</td>
<td>USD 159 + USD 29 Shipping/Handling</td>
<td></td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
First Name: __________________________________________ Last Name: ________________________________________
Email Address: * _______________________________________
Job Title: _____________________________________________
Organisation: __________________________________________
Address: ______________________________________________
City: __________________________________________________
Postal / Zip Code: _______________________________________
Country: _______________________________________________
Phone Number: __________________________________________
Fax Number: ____________________________________________

* 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:

<table>
<thead>
<tr>
<th>Account number</th>
<th>833 130 83</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

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

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World