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PHILIP F. YUAN, ACHIM MENGES, NEIL LEACH

FABRICATION



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PHILIP F. YUAN, ACHIM MENGES, NEIL LEACH

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This book is the latest in a series of publications co-edited by Philip Yuan and Neil Leach, and published by Tongji University Press on the theme of Digital Futures. The publications build upon a series of international computational design and digital fabrication workshops run by CAUP at Tongji University in which many of the contributors to this volume have taken part.

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Executive Editor: Crislie Yuan

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Copy Editor: Ryan Zeringue

Book Design: Qing Liu

National Library of China Cataloguing-in-Publication Data. A catalogue record for this book is available from the National Library of China ISBN 978-7-5608-7334-3

Tongji University Press books may be purchased at special quantity discounts for business or sales promotional use. For information, please email uksales@accpublishinggroup.com.

Printed and Bound in the People's Republic of China.

PREFACE

Digital Fabrication offers an informed overview of the impact of digital technologies on architectural fabrication today. It provides a snapshot of the latest developments in the field, drawing upon the leading experts in architectural practice and education from across the globe.

Digital Fabrication is being published simultaneously with a companion volume, *Computational Design*. Together they form part of the first list of English language texts to be published by Tongji University Press. The content of this volume is subtly—but significantly—different to that of *Computational Design*. Whereas *Computational Design* looks at the impact of digital techniques on the design process, *Digital Fabrication* looks at the impact of digital technologies on the fabrication process. As such, the two volumes are deeply complementary. However, it is not a simple question of distinguishing between what has been designed and what has been fabricated. Indeed most buildings today are both designed and fabricated with some form of digital support. Rather *Digital Fabrication* addresses what has been fabricated primarily using digital technologies whereas *Computational Design* addresses what has been designed primarily using digital techniques.

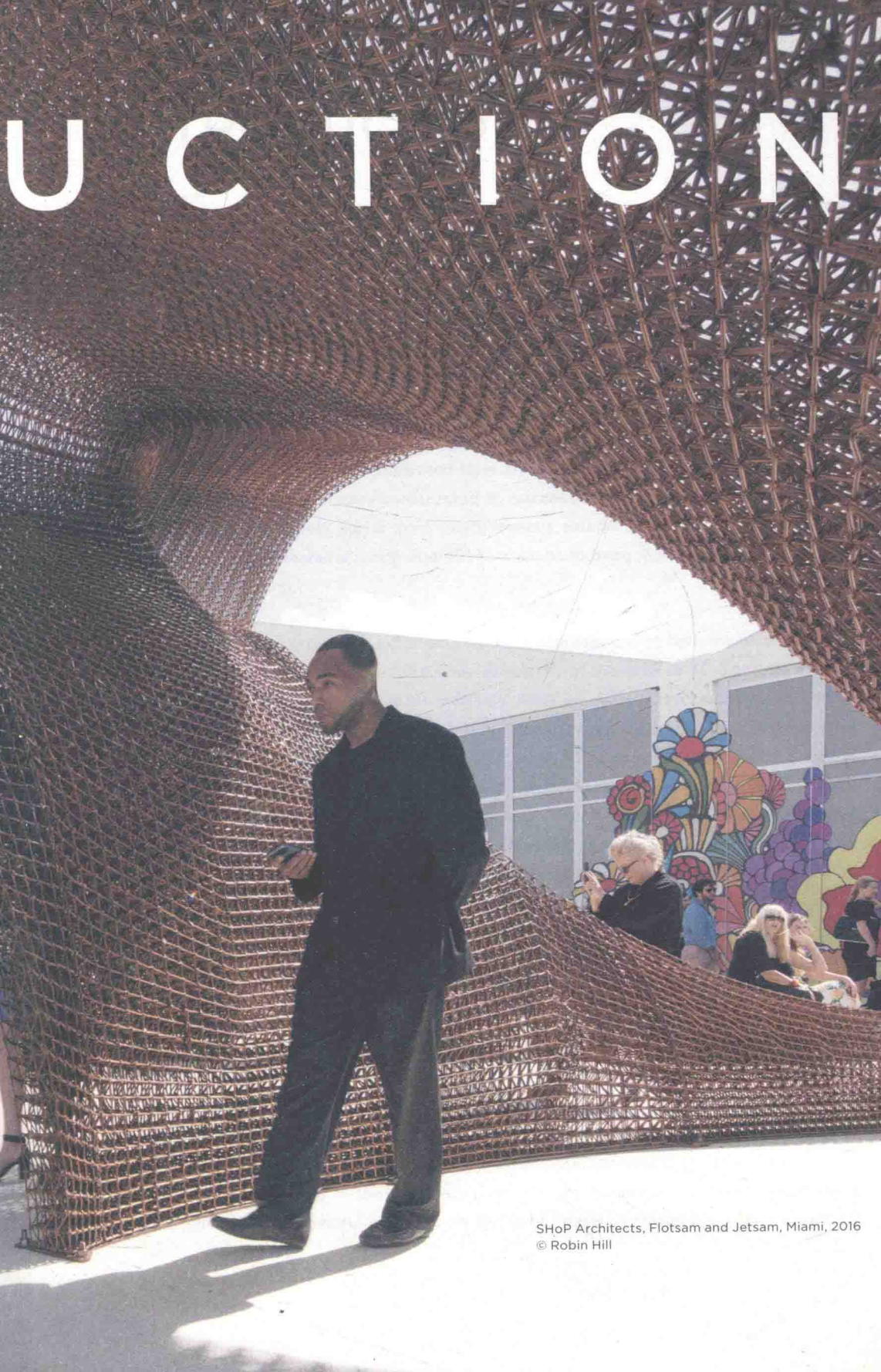
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Neil Leach
Philip F. Yuan

INTROD



UCTION



SHoP Architects, Flotsam and Jetsam, Miami, 2016
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How are new digital fabrication technologies changing the ways in which architects are constructing buildings today?

Digital Fabrication offers a range of informed opinions on the subject written by some of the leading authorities in the world. It addresses new digital fabrication technologies, such as 3D Printing, Computer Numerically Controlled Milling, along with other robotically controlled manufacturing operations, such as laser cutting, bandsaw cutting, stitching, weaving, forming, bending, folding and stacking.

The volume is divided into different sections comprising Manifestos, Methodologies, Interviews and Projects, and also includes a helpful Introduction that offers a brief history of digital fabrication.

US \$39.95 / UK £29.95

ISBN 978-7-5608-7334-3



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