

2-690-32-1

2-690-92

85



STRUCTURAL GLASS

PETER RICE
HUGH DUTTON



E & FN SPON

An Imprint of Chapman & Hall

London · Glasgow · Weinheim · New York · Tokyo · Melbourne · Madras

CONTENTS

4	DEDICATION
5	FOREWORD
6	PREFACE The Serres and the concept of transparency
17	PHOTOGRAPHS
24	INTRODUCTION Design philosophy and methodology
32	CHAPTER 1 The glass and its support points
42	CHAPTER 2 The glass suspension system
62	CHAPTER 3 The cable trusses
76	CHAPTER 4 The structure and overall performance of a Serre
94	APPENDICES
95	The climate inside the Serres
98	Maintenance equipment
100	Specifications
101	Chronology of the Serres project
102	WORKING DRAWINGS
109	POSTSCRIPT
109	Structural glass in other projects
111	The Lintas footbridge, Paris
113	The Groningen video pavilion
114	The 'Grande Nef' of the Collines du Nord – La Défense, Paris
116	Banque Populaire de l'Ouest et de l'Armorique, Montgermont
120	Public canopy, Verdun
122	New entrance to the CNIT – La Défense, Paris
124	The greenhouses of the Parc Citroën, Paris
127	Developments in Japan
130	50 Avenue Montaigne, Paris
134	The Grand Louvre inverted pyramid, Paris
136	Channel 4 Headquarters, London
138	TGV railway terminal, Roissy
142	The west façade of Lille Cathedral, Lille
143	Picture credits
144	INDEX