# TABLE OF CONTENTS

## BLOCK A - AUTOMOTIVE

Lightweight Construction in Automotive : The Lamborghini Huracan .......................................................... 1  
L. Oto

Carbon Fibers in Automotive Series Production .......................................................................................... 2  
A. Wullner

Carbon Composites; Transition from Aircraft to Automotive, Challenges and Opportunities .................... 20  
A. Kitano

## BLOCK B – ADVANCED PRODUCTS & ENGINEERING

Adventures in 3D Printing and Public-Private Partnerships ........................................................................ 35  
R. Resnick

Thermoplastic Composites for Automotive Structural Parts: Meeting the 2 Minutes Challenge .................... 36  
M. Glotin

Mass Production of Hybrid Thermoplastic Composite Aerodynamic Underbody Parts for Passenger Cars. Recent Examples of New Product Solutions ................................................................. 41  
R. Mandos

## BLOCK C – ENERGY & OFFSHORE INDUSTRY

LM Wind Power - Design and Manufacturing of Wind Turbine Blades ....................................................... 49  
R. Schuring

High-tech Materials Needs High-Tech Production Methods - Endless Wound Precision Cables for Offshore & Energy Industry .................................................................................................. 71  
R. Schuit

Hybrid Wheel: New Key Factor for Fuel Economy in Automotive Development and Manufacturing of Thermoplastic Carbon Wheels .................................................................................. 72  
N. Pini

## BLOCK D - AEROSPACE

Airbus Defence and Space New Challenges and Vision in Design, Structures and Technologies for Future Developments ................................................................................................................ 78  
G. Larnac

Development of High-Performance Structural Composites with Multifunctionality for Aerospace Application ................................................................................................................ 91  
X.-S. Yi

Composite Structure: Evolution & Future Challenges .................................................................................. 115  
A. Tropis

Author Index