



# COMPOSITES PART B: ENGINEERING

An International Journal

## AUTHOR INFORMATION PACK

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### DESCRIPTION

The aim of *Composites Part B: Engineering* is to provide a balance between **mechanics** and **materials science** aspects, basic and applied research, and high technology and high volume (low cost) **composite development**.

The Journal aims to provide a forum for the prompt publication of original research on all areas of **composites** and **nano-engineered materials**, with emphasis being placed on evaluation and modelling of engineering details and concepts. Basic research papers are welcomed as well as proposals for review articles. Authors are encouraged to discuss the issues relative to application in the short or long-term in various areas, such as aerospace, automotive and other surface transportation, infrastructure, ship-building, off-shore piping, and recreational products.

Current topics of interest to readers include durability, functionally gradient materials, interfaces, interlaminar fracture, joints and adhesion, smart composites, textile composites, thermoplastics, wave propagation, and non-destructive testing.

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## GUIDE FOR AUTHORS

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### INTRODUCTION

The aim of *Composites Part B: Engineering* is to provide a balance between mechanics and materials science aspects, basic and applied research, and high technology and high volume (low cost) composite development.

The Journal aims to provide a forum for the prompt publication of original research on all areas of composites and nano-engineered materials, with emphasis being placed on evaluation and modelling of engineering details and concepts. Basic research papers are welcomed as well as proposals for review articles. Authors are encouraged to discuss the issues relative to application in the short or long-term in various areas, such as aerospace, automotive and other surface transportation, infrastructure, ship-building, off-shore piping, and recreational products.

Current topics of interest to readers include durability, functionally gradient materials, interfaces, interlaminar fracture, joints and adhesion, smart composites, textile composites, thermoplastics, wave propagation, and non-destructive testing.

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1. Fish JC, Lee S W. Delamination of tapered composite structures. Eng Fract Mech 1989;34(1):43-54.

2. Tsai SW, Hahn HT. Introduction to Composite Materials. Westport: Technomic, 1980.
3. Bradley WL. Relationship of matrix toughness to interlaminar fracture toughness. In: Friedrich K, editor. Application of Fracture Mechanics to Composite Materials. Amsterdam: Elsevier, 1989. p.159-187.
4. Kairouz KC, Heath RJ. Fracture of ply drop-offs in composite structures. In: Proceedings of ECCM-7 Conference. London, May, 1996. p.79-85.

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### List of keywords

The keywords for Composites Parts A and B are separated into five categories:

#### A. Material

- Aramid fibre
- Carbon fibre
- Carbon-carbon composites (CCCs)
- Ceramic fibre
- Ceramic-matrix composites (CMCs)
- Discontinuous reinforcement
- Fabrics/textiles
- Fibres
- Foams
- Glass fibres
- Glasses
- Honeycomb
- Hybrid
- Intermetallics
- Lamina/ply
- Laminates
- Layered structures
- Metal-matrix composites (MMCs)
- Moulding compounds
- Nano-structures
- Particle-reinforcement
- Plates
- Polymer (textile) fibre
- Polymer-matrix composites (PMCs)
- Preform
- Prepreg
- Recycling
- Resins
- Smart materials
- Strand
- Tape
- Thermoplastic resin
- Thermosetting resin
- Thin films
- Tow
- 3-Dimensional reinforcement
- Wood
- Yarn

#### B. Property

Adhesion  
Anisotropy  
Buckling  
Chemical properties  
Corrosion  
Creep  
Cure behaviour  
Damage tolerance  
Debonding  
Defects  
Delamination  
Directional orientation  
Elasticity  
Electrical properties  
Embrittlement  
Environmental degradation  
Fatigue  
Fibre/matrix bond  
Fracture  
Fracture toughness  
Fragmentation  
Hardness  
High-temperature properties  
Impact behaviour  
Interface/interphase  
Internal friction/damping  
Magnetic properties  
Mechanical properties  
Microstructures  
Optical properties/techniques  
Physical properties  
Plastic deformation  
Porosity  
Residual/internal stress  
Rheological properties  
Strength  
Stress concentrations  
Stress relaxation  
Stress transfer  
Surface properties  
Thermal properties  
Thermomechanical  
Transverse cracking  
Vibration  
Wear  
Wettability

### **C. Analysis**

Analytical modelling  
Computational modelling  
Damage mechanics  
Finite element analysis (FEA)  
Laminate mechanics  
Micro-mechanics  
Numerical analysis  
Statistical properties/methods

### **D. Testing**



Acoustic emission  
Chemical analysis  
Electron microscopy  
Fractography  
Mechanical testing  
Non-destructive testing  
Optical microscopy  
Physical methods of analysis  
Process monitoring  
Radiography  
Surface analysis  
Thermal analysis  
Ultrasonics

## **E. Manufacturing / Processing**

Assembly  
Autoclave  
Automation  
Braiding  
Casting  
Chemical vapour deposition (CVD)  
Compression moulding  
Consolidation  
Cure  
Cutting  
Extrusion  
Fibre conversion processes  
Filament winding  
Forging  
Forming  
Heat treatment  
Injection moulding  
Isostatic processing  
Joints/joining  
Knitting  
Lay-up (manual/automated)  
Liquid metal infiltration  
Machining  
Melt-spinning  
Moulding compounds  
Powder processing  
Preform  
Prepreg  
Pultrusion  
Recycling  
Resin film infiltration (RFI)  
Resin flow  
Resin transfer moulding (RTM)  
Sintering  
Slip casting  
Stitching  
Surface treatments  
Tape  
Thermal analysis  
Thermoplastic resin  
Thermosetting resin  
Tooling  
Tow  
Weaving

