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Autore	LO BUE, Salvatore
Titolo	La storia della poesia / Salvatore Lo Bue
Pubbl/distr/stampa	Milano : F.Angeli, copyr.2001
Descrizione fisica	v. ; 23 cm
Collana	Critica letteraria e linguistica
Disciplina	801.93
Soggetti	Poetica
Collocazione	V C 1781/2
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
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Autore	Martin R
Titolo	Ageing of Composites
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Descrizione fisica	1 online resource (543 p.)
Collana	Woodhead Publishing Series in Composites Science and Engineering
Disciplina	620.112
Soggetti	Composite materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Ageing of composites; Copyright; Contents; Contributor contact details; Introduction; Part I Ageing of composites - processes and modelling; 1 The physical and chemical ageing of polymeric composites; 1.1 Introduction; 1.2 Background; 1.3 Viscoelasticity; 1.4 Ageing and effective time; 1.5 Development of an ageing study; 1.6

Summary; 1.7 References; 2 Ageing of glass-ceramic matrix composites; 2.1 Introduction; 2.2 Composite fabrication; 2.3 Fast-fracture behaviour; 2.4 Long-term environmental ageing behaviour; 2.5 Mechanism of oxidation degradation
2.6 Development of a failure mechanism map2.7 Oxidation behaviour under applied stress; 2.8 Thermal shock cycling; 2.9 Composite protection methods; 2.10 Conclusions and future trends; 2.11 References; 3 Chemical ageing mechanisms of glass fibre reinforced concrete; 3.1 Introduction; 3.2 Problem identification; 3.3 Experimental methods; 3.4 Modelling of the chemical attack of fibres; 3.5 Interface effects; 3.6 Composite loading effects; 3.7 In situ degradation of composites due to chemical attack; 3.8 Conclusions; 3.9 Acknowledgements; 3.10 References
4 Stress corrosion cracking in glass reinforced polymer composites4.1 Introduction; 4.2 Overview of stress corrosion cracking in glass reinforced polymer matrix composites; 4.3 Stress corrosion cracking of glass fibres; 4.4 Stress corrosion cracking in unidirectional glass fibre reinforced polymer composites; 4.5 Concluding remarks and future trends; 4.6 References; 5 Thermo-oxidative ageing of composite materials; 5.1 Introduction; 5.2 Developments in understanding thermo-oxidative ageing; 5.3 Initial studies - Kerr and Haskins; 5.4 Overview of other studies; 5.5 Areas for future study
5.6 Conclusions and recommendations5.7 References; 6 Fourier transform infrared photoacoustic spectroscopy of ageing composites; 6.1 Introduction; 6.2 Theory and practice of photoacoustic spectroscopy; 6.3 Ageing of composites; 6.4 Ambient temperature ageing of prepreg; 6.5 Acknowledgements; 6.6 References; 7 Modeling physical ageing in polymer composites; 7.1 Introduction; 7.2 Modeling physical ageing in short-term creep; 7.3 Modeling physical ageing in long-term creep; 7.4 Temperature and moisture effects; 7.5 Conclusions; 7.6 References; 8 Ageing of silicon carbide composites
8.1 Introduction8.2 Silicon carbide composites; 8.3 Ageing kinetics; 8.4 Microstructural change; 8.5 Effect of volume fraction and size of silicon carbide reinforcement; 8.6 Changes in properties; 8.7 References; 9 Modelling accelerated ageing in polymer composites; 9.1 Introduction; 9.2 Definition of environmental conditions and important variables; 9.3 Degradation mechanisms and processes; 9.4 Modelling time-dependent mechanical behaviour; 9.5 Modelling mechanical degradation; 9.6 Modelling physical ageing; 9.7 Modelling hygrothermal effects; 9.8 Modelling chemical ageing
9.9 Methodology for accelerated testing based on the modelling approach

Sommario/riassunto

Ageing of composites is a highly topical subject given the increasing use of composites in structural applications in many industries. Ageing of composites addresses many of the uncertainties about the long-term performance of composites and how they age under conditions encountered in service.The first part of the book reviews processes and modelling of composite ageing including physical and chemical ageing of polymeric composites, ageing of glass-ceramic matrix composites, chemical ageing mechanisms, stress corrosion cracking, thermo-oxidative ageing, spectroscopy of ageing composit