

Article

Influence of Infiltration Pressure on the Microstructure and Properties of 2D-CFRP Prepared by the Vacuum Infiltration Hot Pressing Molding Process

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Abstract: The critical infiltration pressures of the matrix in a two-dimensional (2D) carbon fiber preform were calculated theoretically, and the calculated values of the static and dynamic models were 0.115 and 0.478 MPa, respectively. Compared with the dynamic model, there is no viscous resistance or infiltration front gas pressure in the static model, so the static value is obviously lower than the dynamic value. To verify the rationality of theoretical calculation, 2D carbon fiber reinforced plastics (2D-CFRP) with infiltration pressures of 0.5, 0.6, 0.7, 0.8, and 0.9 MPa were prepared by the vacuum infiltration hot pressing molding process. The microstructure of the composite was observed and the bending strength was tested by three-point bending test. The results show that the infiltration pressure has an important influence on the infiltration effect and the bending fracture morphology. When the infiltration pressure is 0.7 MPa, the composite has an excellent infiltration effect. The fibers distribute reasonable in the fracture. Stress can be effectively transferred when the composite material is loaded. And the bending strength of the composite material reaches 627 MPa at this time.

Keywords: infiltration pressure; vacuum infiltration hot pressing molding process; 2D-CFRP; microstructure and properties; influence

1. Introduction

Carbon fiber reinforced resin matrix composite has a series of outstanding properties, such as low density, high specific strength, high specific modulus, chemical corrosion resistance, high thermal conductivity, and low thermal expansion coefficient [1,2]. It is widely used in aerospace, military, and automobile industries, electronics, and civil engineering [3,4]. The infiltration process is one of the most important steps in preparing 2D-CFRP by the vacuum infiltration hot pressing molding process. To prepare 2D-CFRP with excellent properties, the matrix needs be sufficiently and uniformly infiltrated in the 2D carbon fiber preform. Otherwise, there will be pores or local non-infiltration among the carbon fiber bundles, and carbon fibers cannot play the role of reinforcement effectively, which will greatly affect the microstructure and properties of 2D-CFRP [5]. The experimental results show that the infiltration effect of matrix in a 2D carbon fiber preform is partly determined by the infiltration pressure. If the infiltration pressure is too low, the matrix in the 2D carbon fiber preform is not sufficient and uniform. If the infiltration pressure is too high, the composite will produce cracks

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Drylands under the Influence of Climate Change and Human Activities Zhiming Han, Mou Leong Tan, Jing Zhao, Xiaoping Wang, Song Feng, 2025-12-19 Covering over 40 percent of the Earth's land area and inhabited by more than 38 percent of the world's population drylands are very sensitive to climate change and human activities. These areas, characterized by low soil fertility, possess a heightened vulnerability to both climate warming and land degradation due mostly to human activities. Numerous studies have highlighted the expansion of drylands in the context of global warming. Therefore, maintaining the ecological balance and ensuring sustainable economic development of the drylands are critical for the overall global environment and economy. The escalating drought, exacerbated warming, and rapid population growth are intensifying dryland expansion, resulting in a multitude of potential risks such as reduced carbon sequestration, regional warming, land degradation, and desertification. As environmentally sensitive and economically vulnerable areas, the ecosystems and society in drylands will confront even more formidable challenges in a future warmer world with a rapidly growing population. Hence, there is an urgent need for in-depth exploration and understanding of the change in dryland regions and their underlying mechanisms. The objective of this Research Topic is to explore the change in drylands and the underlying mechanisms in the context of climate change and human activities. This endeavor will play a pivotal role in enhancing our comprehension and formulation of appropriate mitigation and adaptive strategies contributing to global stability and sustainable development. Contributions must improve our knowledge and understanding of dryland change processes and may include topics such as, but not limited to, the following: Climate change and dryland expansion; Hydroclimatic variability in drylands and their underlying physical mechanisms; Land-air system interactions in drylands; Past and future changes of weather and climate extremes in drylands; Changes in water and energy balance and the driving forces; Modeling the water-carbon cycle in dryland ecosystems; Response of dryland vegetation to climate change and human activities; Change in ecosystem patterns and enhancement of services in drylands; Biogeochemical cycles and fluxes, e.g., carbon geochemistry and isotopes.

Intermedia Pollutant Transport David T. Allen, Yoram Cohen, Isaac R. Kaplan, 2012-12-06 The National Center for Intermedia Transport Research (NCITR) was established at UCLA in 1982 by EPA as one of six Centers of Excellence for the study of environmental pollution problems. One of the functions undertaken by the NCITR has been to hold periodic workshops and to provide a forum for the discussion of current topics in the environmental pollution arena. To this end, two

other workshops have previously been held The first held in November 1982 was chaired by H R Pruppacher R G Semonin and W G N Slinn on Precipitation Scavenging Dry Deposition and Resuspension The second held in January 1986 was chaired by Y Cohen on Pollution Transport and Accumulation in a Multimedia Environment The present workshop chaired by D T Allen Y Cohen and I R Kaplan was held on August 24-26 1988 in Santa Monica California The title of the workshop was Intermedia Pollutant Transport Modeling and Field Measurements Approximately one hundred individuals participated and twenty five papers were given mostly by invitation The workshop was divided into the following four broad topics 1 Transport of Pollutants from the Atmosphere 2 Transport of Pollutants from Soils and Groundwaters 3 Transport of Pollutants from Lakes and Oceans and 4 Multimedia Transport of Pollutants The last afternoon was reserved for a Panel Discussion

High Performance Structural Material Yafang Han, Qiang Zhang, Bin Jiang, 2015-04-01 Selected peer reviewed papers from the Chinese Materials Congress 2014 CMC 2014 July 4-7 2014 Chengdu China *Hydro-mechanical Analysis of Rainfall-Induced Landslides* Lizhou Wu, Runqiu Huang, Xu Li, 2020-01-14 Most landslides are triggered by rainfall In previous studies slope stability is often evaluated based on the infiltration analysis Hydro mechanical coupling is significant to rainfall caused landslide evolution This book covers theoretical models of unsaturated infiltration and provides hydro mechanical models for rainfall induced landslides The influences of rainfall patterns boundary conditions layered structures and SWCC hysteresis on the coupled unsaturated infiltration and deformation are discussed Laboratory testing of rainfall induced landslides is performed to study the developing process of landslide upon rainfall infiltration The results provide a better understanding of rainfall induced landslides *Influence of Spatial Variability and Scale Effects on the Parameterization of Hydrologic Response* Eric F. Wood, 1987 [Fiber Reinforced Ceramic Composites](#) K.S. Mazdidasni, 1990-12-31 Provides the first comprehensive treatment of continuous and discontinuous ceramic fiber and whisker reinforced ceramic composites written by 29 authorities in the field **Transactions of the American Society of Heating and Ventilating Engineers** American Society of Heating and Ventilating Engineers, 1930 *ERDA Energy Research Abstracts*, 1985 [Encyclopedia of Agrophysics](#) Jan Gliński, Józef Horabik, Jerzy Lipiec, 2011-06-07 This Encyclopedia of Agrophysics will provide up to date information on the physical properties and processes affecting the quality of the environment and plant production It will be a first up volume which will nicely complement the recently published Encyclopedia of Soil Science November 2007 which was published in the same series In a single authoritative volume a collection of about 250 informative articles and ca 400 glossary terms covering all aspects of agrophysics will be presented The authors will be renowned specialists in various aspects in agrophysics from a wide variety of countries Agrophysics is important both for research and practical use not only in agriculture but also in areas like environmental science land reclamation food processing etc Agrophysics is a relatively new interdisciplinary field closely related to Agrochemistry Agrobiolgy Agroclimatology and Agroecology Nowadays it has been fully accepted as an agricultural and environmental discipline As such this Encyclopedia volume will be an

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1. Understanding the eBook Influence Of The Infiltration Process On Properties Of
 - The Rise of Digital Reading Influence Of The Infiltration Process On Properties Of
 - Advantages of eBooks Over Traditional Books
2. Identifying Influence Of The Infiltration Process On Properties Of
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Influence Of The Infiltration Process On Properties Of
 - User-Friendly Interface
4. Exploring eBook Recommendations from Influence Of The Infiltration Process On Properties Of
 - Personalized Recommendations
 - Influence Of The Infiltration Process On Properties Of User Reviews and Ratings
 - Influence Of The Infiltration Process On Properties Of and Bestseller Lists
5. Accessing Influence Of The Infiltration Process On Properties Of Free and Paid eBooks
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 - Influence Of The Infiltration Process On Properties Of eBook Subscription Services
 - Influence Of The Infiltration Process On Properties Of Budget-Friendly Options
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- ePub, PDF, MOBI, and More
 - Influence Of The Infiltration Process On Properties Of Compatibility with Devices
 - Influence Of The Infiltration Process On Properties Of Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Influence Of The Infiltration Process On Properties Of
 - Highlighting and Note-Taking Influence Of The Infiltration Process On Properties Of
 - Interactive Elements Influence Of The Infiltration Process On Properties Of
 8. Staying Engaged with Influence Of The Infiltration Process On Properties Of
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Influence Of The Infiltration Process On Properties Of
 9. Balancing eBooks and Physical Books Influence Of The Infiltration Process On Properties Of
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Influence Of The Infiltration Process On Properties Of
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Influence Of The Infiltration Process On Properties Of
 - Setting Reading Goals Influence Of The Infiltration Process On Properties Of
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Influence Of The Infiltration Process On Properties Of
 - Fact-Checking eBook Content of Influence Of The Infiltration Process On Properties Of
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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