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microstructure wikipedia

Apr 28 2024

microstructure is the very small scale structure of a material defined as the structure of a prepared surface of material as revealed by an optical microscope above 25 magnification

impact of high growth rates on the microstructure and vortex

Mar 27 2024

in this technical review we distinguish the rich vortex pinning microstructure for vapour solid solid solid and liquid solid growth methods and how it is modified in the fast growth process

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Feb 26 2024

microstructures belong to the field at the center of materials science and engineering they are the strategic link between materials processing and materials behavior therefore microstructure control is essential for any processing activity

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Jan 25 2024

microstructures determine the mechanical physical and chemical properties of materials for example the strength and hardness of materials are determined by the number of phases and their grain sizes

a deep learning approach for complex microstructure inference

Dec 24 2023

the authors apply deep learning for the segmentation of complex phase steel microstructures providing a bridge between experimental and computational methods for materials analysis

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Nov 23 2023

the microstructure of materials is an essential feature for the design of engineering structures with improved performances in these last decades a huge effort has been made in the direction of conceiving new materials with specific microstructures for the sake of producing exotic mechanical behaviors both in the static and the dynamic regime

on the role of the microstructure in the deformation of

Oct 22 2023

this study explores the role that the microstructure plays in determining the macroscopic static response of porous elastic continua and exposes the occurrence of position dependent nonlocal

what can machine learning help with microstructure informed

Sep 21 2023

machine learning techniques have been widely employed as effective tools in addressing various engineering challenges in recent years particularly for the challenging task of microstructure informed materials modeling this work provides a comprehensive review of the current machine learning assisted and data driven advancements in this field including microstructure characterization and

microstructure and properties in metals and alloys mdpi

Aug 20 2023

microstructure design is key in targeting the desired material's properties contributions related to microstructure design and characterization are collected in this topic together with their relation to the mechanical fatigue wear and corrosion resistance of different kinds of metals and alloys

microstructure development an overview sciencedirect topics

Jul 19 2023

the simple model of microstructure development outlined in section 10.2.3 suggests a mechanism whereby the cement and polymer particles cure independently of each other producing a physical binding of the cement hydrates and aggregates by a distinct polymer film

introduction to microstructure inference

Jun 18 2023

the term microstructure is used to describe the appearance of the material on the nm-cm length scale a reasonable working definition of microstructure is the arrangement of phases and defects within a material microstructure can be observed using a range of microscopy techniques

steel microstructure definition determination and its

May 17 2023

steel microstructure refers to the arrangement and characteristics of the tiny atomic and crystalline features within steel it is crucial because it determines steel's mechanical properties such as strength hardness and ductility

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this chapter gives a brief account of the different microscopic techniques to observe and interpret the microstructures of metals and alloys

effect of tempering temperature on the microstructure

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detailed microstructure analysis reveals that both volume fraction and carbon content of the α are increased in the tempered steels accompanied by improved tensile properties than in quenched conditions

relationship between the unique microstructures and behaviors

Feb 14 2023

high entropy alloys (HEAs) which were introduced as a pioneering concept in 2004 have captured the keen interest of numerous researchers entropy in this context can be perceived as representing disorder and randomness by contrast elemental compositions within alloy systems occupy specific structural sites in space a concept referred to as structure in accordance with Shannon entropy

modeling and simulation of microstructure in metallic systems

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introduction the diversity and complexity of materials and their behavior are rooted in the complex generally nonlinear interplay between microstructural features such as voids cracks phases

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microstructure analysis such as porosity micro and nanomechanical properties morphology of microstructure of nano reinforced cement based materials is vital because of its close relationship to macro performance including mechanical properties permeability and visco elastic properties

inhibiting dendrites by uniformizing microstructure of

Nov 11 2022

the uniform microstructure allows for the production of an electrolyte pellet with significantly reduced porosity through cold pressing the removal of defects has significantly enhanced the electrolyte s ability to inhibit dendrite formation with a critical current density reaching 3.8 ma cm²

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Oct 10 2022

1 the surface physical properties of reinforced materials micro structure and morphological structure of the surface of reinforced materials belong to surface morphology ideal smooth surface does not exist every solid surface is covered with micro cracks voids empties and so on

effect of foam interlayer thickness and pore size on the

Sep 09 2022

the brazed interface microstructure with a 0.4 mm thick foam ni interlayer with a pore size of 0.5 mm was more uniform and the shear strength of the joint reached 21.23 mpa representing an 85.96% increase compared to the joint without the foam ni interlayer

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