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Fracture, Corrosion and Fatigue\"

Isogeometric Analysis For Topology Optimization

We consider Isogeometric Analysis for the spatial approximation which facilitates encapsulating the exactness of the representation of the design domain in the topology optimization and is particularly suitable for the analysis of phase field problems. We demonstrate the validity of the approach and numerical approximation by solving two and three-dimensional topology optimization problems.

Isogeometric Analysis for Topology Optimization with a ...

An isogeometric analysis based topology optimization approach based on the

popular SIMP model is developed to attack the challenging stress-constrained design problem. The STM-based stabilization schemes are also suggested to achieve stable convergence and desired topological designs of continuum structures in plane stress state and thin plates with bending stress constraint.

Isogeometric analysis based topology optimization design ...

A new isogeometric density based approach for the topology optimization of material multi- structures is presented. In this method, the density fieldmaterial phases ares of multiple represented using the isogeometric NURBS-based parameterization leading to exact modeling of the geometry, and removing numerical artifacts.

An isogeometric approach to topology optimization of multi ...

DOI: 10.1007/S11831-012-9075-Z
 Corpus ID: 39419078. Isogeometric Analysis for Topology Optimization with a Phase Field Model
 @article{Ded2012IsogeometricAF, title={Isogeometric Analysis for Topology Optimization with a Phase Field Model}, author={L. Ded{\`e} and M. J. Borden and T. J. Hughes}, journal={Archives of Computational Methods in Engineering}, year={2012}, volume={19}, pages={427-465} }

Isogeometric Analysis for Topology Optimization with a ...

Wechat. Summary. A new isogeometric density-based approach for the topology optimization of multi-material structures

is presented. In this method, the density fields of multiple material phases are represented using the isogeometric non-uniform rational B-spline-based parameterization leading to exact modeling of the geometry, removing numerical artifacts and full analytical computation of sensitivities in a cost-effective manner.

An isogeometric approach to topology optimization of multi ...

Dedè 47 developed an IGA-based topology optimization with a phase field using the generalized Cahn-Hilliard equation. Recently, Qian 48 proposed B-spline-based topology optimization approach. The author suggested a separate rectangular domain embedded in the physical design domain to

represent the analysis density field using the tensor product B-splines.

Multiresolution topology optimization using isogeometric ...

Abstract In this paper, we present an accurate and efficient isogeometric topology optimization method that integrates the non-uniform rational B-splines based isogeometric analysis and the parameterized level set method for minimal compliance problems.

Isogeometric analysis for parameterized LSM-based ...

We are studying methods for topology optimization of multi-physics systems, where human intuition is often inadequate to cope with the coupling nature of multi-physics systems. We

have used the continuous adjoint approach to study the optimization of electromechanical systems for the design of actuators, the optimization of thermofluid systems under tangent thermal gradient constraints, and the optimal design of electric field for light absorption in organic solar cells.

Isogeometric Analysis, hape optimization, topology ...

In this paper, an effective and efficient topology optimization method, termed as Isogeometric Topology Optimization (ITO), is proposed for systematic design of both 2D and 3D auxetic metamaterials based on isogeometric analysis (IGA).

Topology optimization for auxetic metamaterials based on ...

A multiscale isogeometric topology optimization is presented for lattice materials. • Asymptotic homogenization is coupled to topology optimization for lattice design. • The role of cell topology is demonstrated in the optimal density distribution of lattices. • Benchmark examples are presented to prove the efficiency of the proposed scheme.

Multiscale isogeometric topology optimization for lattice ...

Isogeometric Analysis IGA is a relatively new method that is a logical extension of the classical finite element method.

Computational Mechanics - Computational mechanics lab at ...

The approach couples density and stiffness to the phase field variable. The topology evolves from homogeneously filled regions by nucleation of holes. In numerical examples we compare results using standard Finite Elements (FEM) and Isogeometric Analysis (IGA), respectively.

Topology Optimization with Isogeometric Analysis and Phase ...

B-spline basis functions are employed for the IGA discretization procedure to improve the performance of electromagnetic wave analysis in a unit cell and topology optimization. Also, to keep the same order of continuity on the periodic boundaries as on other element edges in the domain, we propose the extended domain approach, while

incorporating Floquet periodic boundary condition (FPBC).

Isogeometric topology optimization of anisotropic ...

Abstract In this paper, we present an accurate and efficient isogeometric topology optimization method that integrates the non-uniform rational B-splines based isogeometric analysis and the parameterized level set method for minimal compliance problems.

Isogeometric analysis for parameterized LSM-based ...

This study focuses on the topology optimization of structures using a hybrid of level set method (LSM) incorporating sensitivity analysis and isogeometric analysis (IGA). First, the topology

optimization problem is formulated using the LSM based on the shape gradient. The shape gradient easily handles boundary propagation with topological changes.

ISOGEOMETRIC TOPOLOGY OPTIMIZATION OF STRUCTURES USING ...

The Isogeometric Analysis (IA) method is applied for structural topology optimization instead of the finite element method. For this purpose, the material density is considered as a continuous function throughout the design domain and approximated by the Non-Uniform Rational B-Spline (NURBS) basis functions.

ISOGEOMETRIC TOPOLOGY

OPTIMIZATION OF STRUCTURES BY USING MMA

Li, K. and Qian, X., "Isogeometric analysis and shape optimization via boundary integral", Proceedings of SIAM/ACM Joint Conference on Geometric and Physical Modeling (GD/SPM11) (Best Paper Award), Computer-Aided Design, Vol. 43, No. 11, pp. 1427 - 1437, 2011. 13.

Computational Design, Isogeometric Analysis, Geometry ...

The original linear system is then projected on the reduced basis with a smaller size. The method has shown much improvement in structural topology optimization. The motivation for using isogeometric analysis , so far is due to higher-order approximation with

the B-Spline or NURBS basis functions which are compatible with CAD tools. It enables ...

Three-dimensional topology optimization of auxetic ...

In the present work, shape and topology optimization using iso- geometric analysis is presented as the first step for a spline based integrated shape and topology optimization approach. Shape optimization of 2D and shell problems is treated and the same framework is extended to topological design by using the trimmed surface analysis.

Shape optimization and its extension to topological design ...

This paper develops a new topology optimization approach for minimal

compliance problems based on the parameterized level set method in isogeometric analysis. Here, we choose

the basis functions as level set functions. The design variables are obtained with Greville abscissae based on the corresponding collocation points.