Isogeometric Analysis Cad Finite Element Nurbs Hughes

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A summary of similar and dissimilar finite element and isogeometric analysis concepts is presented in Table 1. A salient feature of isogeometric analysis, shared by meshless methods, is the non-interpolatory nature of the basis. Other shared features are the partition of unity property and compact support.

Isogeometric analysis: CAD, finite elements, NURBS, exact ...
Isogeometric analysis: CAD, finite elements, NURBS, exact geometry and mesh refinement T.J.R. Hughes *, J.A. Cottrell, Y. Bazilevs Institute for Computational Engineering and Sciences, The University of Texas at Austin, 201 East 24th Street, 1 University Station C0200, Austin, TX 78712-0027, United States

Isogeometric analysis: CAD, finite elements, NURBS, exact ...
Isogeometric analysis: CAD, finite elements, NURBS, exact geometry and mesh refinement T.J.R. Hughes, J.A. Cottrell, Y. Bazilevs ... This perhaps explains why the geometric representations in finite element analysis and CAD are so different. Major finite element programs were technically mature long before mod-ern CAD was widely adopted. ...

Isogeometric analysis: CAD, finite elements, NURBS, exact ...
It is argued that isogeometric analysis is a viable alternative to standard, polynomial-based, finite element analysis and possesses several advantages. AB - The concept of isogeometric analysis is proposed.

Isogeometric analysis: CAD, finite elements, NURBS, exact ...
Isogeometric analysis, introduced by Hughes et al. [1], leverages computer aided design (CAD) representations directly in finite element analysis. It has been shown that this approach can ...

Isogeometric analysis: CAD, finite elements, NURBS, exact ...
CAD geometry is exact; ! hundreds of thousands analyses of CAD designs are performed in engineering offices throughout the world every day ! FEM (1950's - 1960's) – Engineering Analysis Process: Two fundamental steps in Virtual Manufacturing: CAD (1970's - 1980's) – Engineering Design Process: ! engineering designs are encapsulated in CAD systems; !

What is Isogeometric Analysis? - SINTEF
Written by leading experts in the field and featuring fully integrated colour throughout, Isogeometric Analysis provides a groundbreaking solution for the integration of CAD and FEA technologies.

Isogeometric Analysis: Toward Integration of CAD and FEA ...
The original idea of isogeometric analysis (IGA) is to adopt the same functions (NURBS) used by CAD programs to describe geometry for the finite element analysis directly without the need to ...

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