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The construction of finite element geometry (i.e., the mesh) is costly, time consuming and creates inaccuracies. It is clear from the smaller size of the CAE industry compared with the CAD industry that the most fruitful direction would be to attempt to change, or replace, finite element analysis with something more CAD-like.

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**Isogeometric
analysis: CAD, finite
elements, NURBS,
exact ...**

Despite the fact that geometry is the underpinning of analysis, CAD, as we know it today, had its origins later, in the 1970s and 1980s. A highly-recommended introductory book, with historical insights, is Rogers [1]. This perhaps explains why

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the geometric representations in finite element analysis and CAD are so different.

Isogeometric analysis: CAD, finite elements, NURBS, exact ...

Abstract The concept of isogeometric analysis is proposed. Basis functions generated from NURBS (Non-Uniform Rational B-Splines) are

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Analysis, CAD, finite elements, NURBS ...
employed to construct an exact geometric model. For purposes of analysis, the basis is refined and/or its order elevated without changing the geometry or its parameterization. Analogues of finite element h - and p -refinement schemes are presented and a new, more ...

[PDF] Isogeometric analysis : CAD, finite elements, NURBS ...

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Isogeometric analysis is a computational approach that offers the possibility of integrating finite element analysis into conventional NURBS-based CAD design tools. Currently, it is necessary to convert data between CAD and FEA packages to analyse new designs during development, a difficult task since the two computational geometric approaches

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are different.

Isogeometric analysis employs complex NURBS geometry in the FEA application directly. This allows models to be designed, tested and adjuste

Isogeometric analysis - Wikipedia

It is argued that isogeometric analysis is a viable alternative to standard, polynomial-based, finite element

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Analysis and possesses several advantages.

Keywords: NURBS;
Finite element analysis; CAD;
Structural analysis;
Fluid dynamics; Mesh refinement;
Convergence;
Boundary

Isogeometric analysis: CAD, finite elements, NURBS, exact ...

Isogeometric analysis carries over Computer

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Aided Design (CAD) geometry into the Finite Element Method (FEM), by replacing the classical basis functions of FEM with B-splines and NURBS (Non-Uniform Rational B-Splines). The reason behind this recently developed technique is to enhance accuracy by allowing FEM simulations directly on CAD models.

Details for Course

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Isogeometric Analysis: CAD in FEM

More recently, Hughes et al (2005) and Cottrell et al (2009) established the name isogeometric analysis, which unifies the fields of CAD and finite element analysis. They show the power of ...

Isogeometric Analysis: Toward integration of CAD and FEA ...

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Isogeometric Analysis:
CAD, finite elements, ...
Flowchart of a classical
finite element code.

Such a code can be
converted to a single-
patch isogeometric
analysis code by
replacing the routines
shown in green.

[Cottrell et al., 2009]
IGA for Navier-Stokes
by N. Cavallini, in
collaboration with
Alenia S.p.A within
TERRIFIC ...

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What is

Isogeometric

Analysis? - SINTEF

Isogeometric Analysis is a generalization of classical Finite Element Analysis (FEA) which possesses improved properties. For example, NURBS are capable of more precise geometric representation of complex objects and, in particular, can exactly represent many commonly

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engineered shapes,
such as cylinders,
spheres and tori.
Isogeometric Anal-

Isogeometric Analysis: Approximation, stability and error ...

First, a brief review of
NURBS and
isogeometric analysis
is given. Then the
newly-proposed
element formulation is
derived and various
examples show the

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Analysis
good performance of
this element. In the
last chapter the
applicability of this
method for the
integration of CAD and
analysis is
demonstrated. 2.
NURBS and
isogeometric analysis

Isogeometric shell analysis with Kirchhoff-Love elements ...

Inspired by the
nonconforming finite-

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element method, and with the intention of resolving difficulties in constructing analysis-suitable geometry in isogeometric analysis, an isogeometric method based on multipoint constraints and a finite-element tearing and interconnecting algorithm, called nonconforming isogeometric analysis, is proposed.

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**Nonconforming
isogeometric
analysis for trimmed
CAD ...**

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. Tom Hughes and his researchers, Austin

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Cottrell and Yuri

Bazilevs, present their
pioneering

isogeometric approach,
which aims to integrate
the two techniques of
CAD and FEA using
precise NURBS
geometry in the FEA
application.

Isogeometric Analysis: Toward Integration of CAD and FEA ...

Written by leading
experts in the field and

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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 ...

In Isogeometric
Analysis, the
interpolation is

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performed using non-
uniform rational B-
splines, for short
NURBS. As NURBS are
also the basis of CAD-
models, the idea is to
be able to perform
finite element
simulations directly on
CAD-models, avoiding
a separate meshing
step.

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Analysis - RWTH
AACHEN UNIVERSITY
Chair for ...**

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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. Tom
Hughes and his
researchers, Austin
Cottrell and Yuri
Bazilevs, present their
pioneering
isogeometric approach,

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which aims to integrate
the two techniques of
CAD and FEA using
precise NURBS
geometry in the FEA
application.

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To utilize the geometry
smoothness of
isogeometric analysis
for solid media and the
effectiveness of the
discrete element

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method for particulate matters, a coupled three-dimensional isogeometric/discrete element method is developed to model the contact interaction between structures and particles. The coupling procedure for handling interactions between isogeometric elements and discrete ...

**A coupled 3D
discrete elements/is**

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**Isogeometric method
for ...** Finite Element

Isogeometric Analysis:
Development of fully-
integrated computer-
aided design and
analysis technologies
using the framework of
isogeometric analysis,
a novel computational
approach which offers
the possibility of
integrating finite
element analysis into
conventional CAD
tools.

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**Computational
Mechanics and
Geometry
Laboratory ...**

Isogeometric analysis (IGA): Generalizing finite element analysis to allow seamless integration with computer-aided design (CAD).

Immersogeometric analysis (IMGGA): Extending IGA to handle complex geometries formed by intersections of curves,

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Analysis, Gao
surfaces, and volumes,
as found in most
industrial CAD models.

David Kamensky - Research

The approach taken in [1] was given the pithy name Isogeometric Analysis. Since its inception it has become a focus of research within both the fields of FEA and CAD and is rapidly becoming a mainstream analysis

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methodology and a
new paradigm for
finite element
geometric design [2].
Nurbs Hughes

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