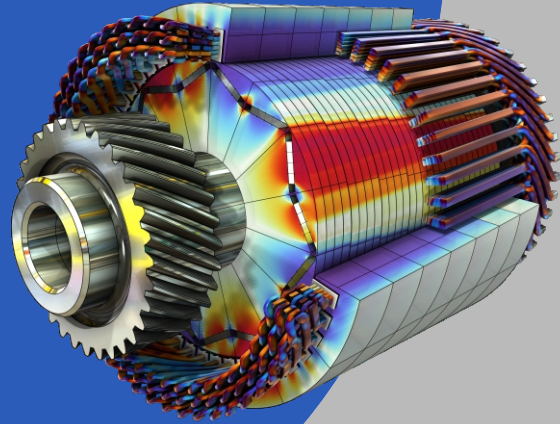




SIMULATION ENABLED EXPERIENTIAL LEARNING (SEEL)

learning beyond limitation

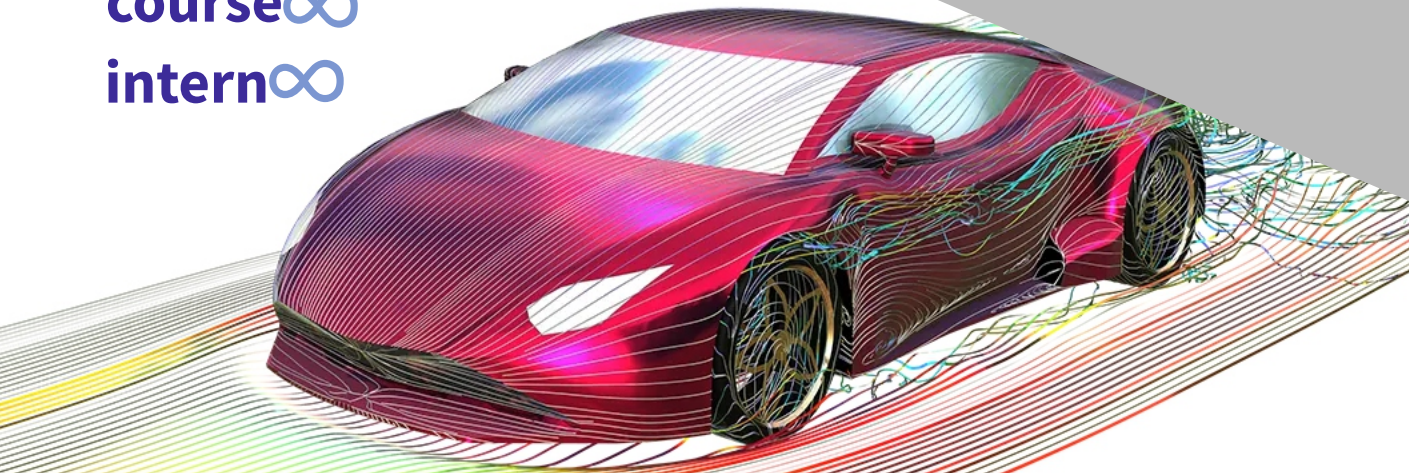


lab[∞]
exam[∞]
dasoha[∞]
mock[∞]
course[∞]
intern[∞]

Powered by



Innovation Starts with Multiphysics Simulation



Simulation-Enabled Experiential Learning (SEEL) is an advanced educational framework that integrates simulation-driven learning with real-world engineering applications. By combining theoretical concepts with practical implementation, SEEL delivers an immersive and hands-on learning experience that strengthens students' understanding of complex engineering systems, processes, and technologies.

Key Features of SEEL

● Simulation-Driven Learning with COMSOL Multiphysics

SEEL utilizes COMSOL Multiphysics to create an interactive simulation-based learning environment for students, faculty members, and research scholars. The platform supports diverse academic backgrounds and learning styles, offering a flexible and scalable solution for advanced engineering education, research, and innovation.



Simulate Today.
Succeed Tomorrow.

SIMULATION-ENABLED EXPERIENTIAL LEARNING (SEEL)

Learn • Practice • Experience • Excel

A unified ecosystem of simulation-powered modules to build skills, confidence and competence for life.

- Simulation First
- Experiential Learning
- Skill Development
- Real-World Readiness
- Continuous Growth
- Impact for Society

WHY SEEL?

- Learn by Doing**
Simulations that bring concepts to life.
- Real-World Ready**
Practice in a safe environment.
- Better Outcomes**
Improve performance and confidence.
- Industry Connected**
Aligned with real needs and careers.
- Purpose Driven**
Learning that creates impact.



WHO IS SEEL FOR?

- Students**
Build skills and boost confidence.
- Educators**
Deliver engaging, outcome-driven learning.
- Institutions**
Enhance quality, employability and impact.
- Industry**
Access future-ready talent and insights.

THE SEEL IMPACT

- Stronger Learning**
Deeper understanding through simulation.
- Higher Performance**
Better results in assessments.
- Career Ready**
Practical skills for real-world success.
- Industry Connected**
Bridging the gap between learning and work.
- Social Impact**
Empowering learners to give back and create change.

Key Features of SEEL

● Academically Aligned with Industry-Oriented Content

The SEEL platform provides content that aligns with academic curricula while incorporating real-world industrial practices. The learning modules span multiple engineering domains, including automotive, aerospace, railways, power systems, and materials science. This domain-focused approach enables learners to develop deeper insights into engineering physics, material behavior, and industrial applications.

● Hands-On Experiential Learning

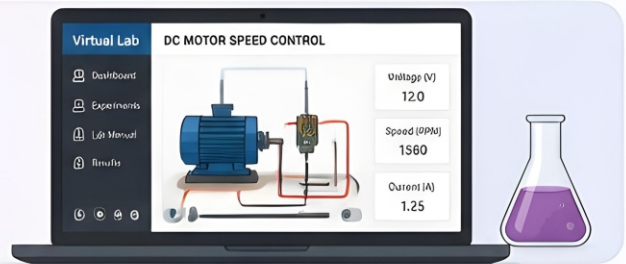
SEEL emphasizes practical, simulation-driven learning experiences that allow students to apply theoretical knowledge to real engineering problems. The virtual simulation environment replicates scenarios such as product design, system optimization, and performance analysis, enabling learners to experiment safely and effectively without the constraints of physical infrastructure.

— Learn. Practice. Experience. Get Industry Ready. —



1 HANDS-ON VIRTUAL LABS

Practice real-world experiments in a safe, interactive virtual environment anytime, anywhere.



2 INDUSTRY INTERNSHIPS

Work on real projects, solve industry problems and gain practical experience.



INTERNSHIP JOURNEY

- ✓ Orientation
- ✓ Project Assigned
- In Progress
- Review
- Completion



3 SELF-PACED MENTORING

Learn your way with expert mentors. Get guidance, feedback and support—anytime.

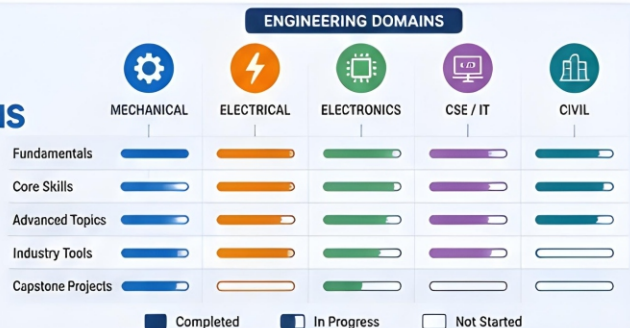


- 👤 1:1 Mentoring
- ❓ Doubt Resolution
- ★ Feedback
- 📖 Learning Resources



4 SKILL MAP FOR ENGINEERING DOMAINS

Structured roadmap across core engineering domains to build in-demand skills and track progress.





LabInfinity – Computational Simulation Virtual Labs

LabInfinity is a pioneering cloud-based virtual laboratory platform designed for computational simulation learning. Powered by COMSOL Multiphysics, it enables students and professionals to explore simulation concepts based on specific engineering domains, physical phenomena, and industrial applications at their convenience.



● Reserved ● Available ● Slots Full ● Available ● RAC BI-Booked ● Blocked

Jun 8 - Jun 14, 2024

Time	Mon 8 Jun	Tue 9 Jun	Wed 10 Jun	Thu 11 Jun	Fri 12 Jun	Sat 13 Jun	Sun 14 Jun
08-10	Block/Unblock	Block/Unblock	Block/Unblock	Block/Unblock	Block/Unblock	Block/Unblock	Block/Unblock
10-12	Available	Available	Available	Available	Available	Available	Available
12-14	Available	Available	Available	Available	Available	Available	Available
14-16	Available	Available	Available	Available	Available	Available	Available
16-18	Available	Available	Available	Available	Available	Available	Available

Sign in

Username

Password

[Privacy policy](#)

Virtual Lab

Dashboard | Schedule | Launch

COMSOL Multiphysics Simulation Software

Electromagnetics Modules

- AC/DC
- RF
- Wave Optics
- Ray Optics
- Plasma
- Electric Discharge
- Semiconductor

Fluid Flow & Heat Transfer Modules

- CFD
- Mixer
- Polymer Flow
- Microfluidics
- Porous Media Flow
- Subsurface Flow
- Pipe Flow
- Molecular Flow

Structural Mechanics & Acoustics Modules

- Granular Flow
- Metal Processing
- Heat Transfer

All COMSOL Multiphysics simulation modules are available, along with equivalent open-source alternative software packages.

Unlimited Learning

Real-World Industrial Experience

Recent Projects

- Laser Heating of a Silicon Wafer**
A silicon wafer is heated up by a laser that moves radially in and out over time...
- Cable Tutorial Series**
In this set of eight tutorial models and associated documentation, you can...
- Heat Sink**
This model is intended as a first introduction to simulations of fluid flow...
- Bracket – Structural Mechanics Tutorials**
The bracket models are used as an introduction to structural mechanics...



ExamInfinity – AI-Powered Skill Assessment Platform

ExamInfinity is an intelligent online assessment platform developed for engineering students across multiple disciplines. It evaluates core technical knowledge, improves competitive performance, & offers certification opportunities through AI-driven assessments and analytics.



Your Total Points

You've earned 0 points! Keep going!

Keep earning points every day!

Your Badges

No badges earned yet. Start taking Exam to unlock your first badge!

Your Level Progress

0 XP

100% Passed

0 / 100 XP to reach Level 2

100% Complete course (Badges will be awarded)

Dashboard

Active Skill Tests **69**

Total Skill Tests **71**

Attendees **8**

Qualified **1**

Active Skill Tests

Search active tests...

GATE 2023 – Electrical Engineering (EE)

The Electrical Engineering (EE) paper in GATE 2023 is designed for students...

02 Jun 2026 – 01 Jun 2029

Start Exam

GATE 2023 – Electronics & Communication Engineering (EC)

The Electronics & Communication Engineering (EC) paper in GATE 2023...

02 Jun 2026 – 01 Jun 2029

Start Exam

GATE 2023 – Civil Engineering (CE-1)

The Civil Engineering (CE-1) paper in GATE 2023 is designed for students...

02 Jun 2026 – 01 Jun 2029

Start Exam

GATE 2023 – Mechanical Engineering (ME)

The Mechanical Engineering (ME) paper in GATE 2023 is designed for...

02 Jun 2026 – 01 Jun 2029

Start Exam

GATE 2023 – Instrumentation Engineering (IN)

0 / 45

Clear Review Prev Next Tools Submit

59:18

A system has the transfer-function

$$\frac{Y(s)}{X(s)} = \frac{s-\pi}{s+\pi}$$

Let $u(t)$ be the unit-step function. The input $x(t)$ that results in a steady-state output $y(t) = \sin \pi t$ is _____.

$x(t) = \sin(\pi t) u(t)$

Questions Palette

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26						
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58

Answered Review Later Unanswered Not Visited

Answer Sheet

1 Consider two identical tanks with a bottom hole of diameter d . One tank is filled with water and the other tank is filled with engine oil. The height of the fluid column h is same in both the cases. The fluid exit velocity in the two tanks are V_1 and V_2 Neglecting all losses, which one of the following options is correct?

$V_2 > V_1$ Your Answer

$V_2 = V_1$ Correct Answer

$V_2 < V_1$

Insufficient data to definitively conclude the relationship between V_1 and V_2

Unlimited Skill Tests

GATE, Subject-Wise Practice Tests

Hello, Administrator!

This is your attempt #1

GATE 2023 – Instrumentation Engineering (IN)

0	10:43 PM	0.00%	0.00%	Fail
Score Obtained	Attempt Time	Percentage	Percentile	Status

Exit Get Appointment

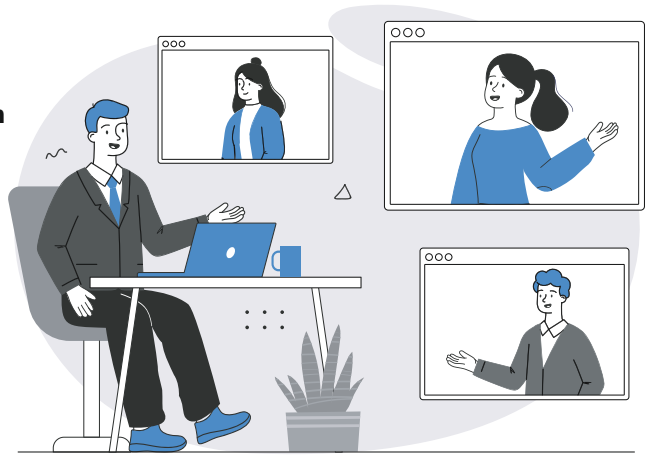
Category-wise Breakdown

Category Name	Score	Time Spent	Correct	Incorrect	Not Attempted
Gate 2023	0	1 min 22 sec	0	0	65
Total	0	1 min 22 sec	0	0	65



MockInfinity – AI Powered Online Mock Interview Platform

MockInfinity is an advanced AI-Powered interview preparation platform tailored for different academic disciplines and career stages. It allows students to practice interviews through adaptive and real-time questioning techniques, helping improve confidence, communication, and technical interview performance.



Dashboard

- High Scorer: 47% (Gurubheemacharya Karjol)
- Interviews Completed: 85 (11 users completed interviews)
- Active Candidates: 15 (755 users in system)
- Avg Candidate Score: 7% (130 total interviews)

Approved Interviews (6) Admin Managed Repository

All Departments | Search templates... | View All

Interview Title	Job Summary	Date	Duration
Full Stack Developer – Entry Level	This assessment evaluates the candidate's ability to develop...	04 Jun 2026	5 mins
CFD Engineer – Entry Level	Job Summary An entry-level CFD Engineer is responsible for...	19 May 2026	5 mins
Software Test Eng	Software Test Eng	15 May 2026	3 mins
React Developer Interview	Evaluate a candidate's React.js skills, including Components, Hooks, Stat...	15 May 2026	4 mins

CFD Engineer – Entry Level (ACTIVE, APPROVED)

MECHANICAL & ALLIED | DESIGN ENGINEER | MEDIUM

ABOUT THIS ASSESSMENT

Job Summary

An entry-level CFD Engineer is responsible for performing computational simulations to evaluate fluid flow, thermal behavior, and aerodynamic performance of products and systems. This role involves creating CAD-based simulation models, generating meshes, setting up boundary conditions, running analyses, and interpreting results to support engineering decisions.

Key Responsibilities

- > Build and prepare CAD geometry for CFD analysis.
- > Generate high-quality computational meshes.
- > Set up simulations involving:
- > Internal and external fluid flow
- > Heat transfer and conjugate heat transfer

ASSESSMENT CONFIGURATION (DYNAMIC LOGIC)

TOTAL SESSION TIME: 5 MINUTES

TEMPLATE CREATED: May 17, 2026

EDIT TEMPLATE | DEACTIVATE TEMPLATE

Full Stack Developer – Entry Level (ACTIVE, APPROVED)

COMPUTER SCIENCE & ALLIED | FULL STACK DEVELOPER | BEGINNER

ABOUT THIS ASSESSMENT

This assessment evaluates the candidate's ability to develop modern web applications using both frontend and backend technologies. Candidates will be tested on HTML, CSS, JavaScript, React.js, REST APIs, database fundamentals, problem-solving skills, and software development best practices. The assessment is designed to measure technical proficiency, logical thinking, and the ability to build scalable and user-friendly applications in real-world development environments.

ASSESSMENT CONFIGURATION (DYNAMIC LOGIC)

5 Questions

TOTAL SESSION TIME: 5 MINUTES

CANDIDATE GUIDELINES

- Professional environment with stable internet is mandatory.
- Real-time audio & video interaction is required.

TEMPLATE CREATED: June 4, 2026

EDIT TEMPLATE | DEACTIVATE TEMPLATE

Interview Results

Track your performance and analyze your progress over time.

Average Score: 6.3% | Highest Score: 75% | Total Hours: 5

Search for Role: All Types | Start Date: dd-mm-yyyy | End Date: dd-mm-yyyy | Export Results

Interview Title	Score	View Details	Download Report
AI Interview for cloud architecture engineer	0%	View Details	Download Report
AI Interview for software developer	0%	View Details	Download Report

Unlimited mock-Interview

Test your skills across technical and HR interviews.

CourseInfinity is an online learning platform that combines theoretical instruction with practical simulation-based training. The courses are designed to equip students with industry-relevant skills across multiple engineering disciplines.



- Dashboard
- Apps
- Manage Courses
- Categories
- Organizers
- Reports
- Support
- Settings

Total Courses

14

Approved Active Courses

0

Unapproved Courses

0

Total Enrollments

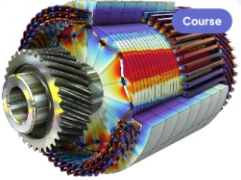
375

Expired Courses

0

Upcoming Courses

Search upcoming courses...




Certification Course on Low-Frequency Electromagnetic...

02 Jul 2026 - 03 Jul 2026

Course Objectives By the end of the course, participants will be able...

Book

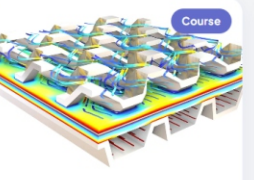


Certification Course on Battery Design and Analysis

16 Jul 2026 - 17 Jul 2026

Course Objectives Upon successful completion of this course, participan...

Book

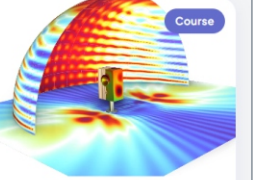


Certification Course on Fuel Cell and Electrolyzer...

06 Aug 2026 - 07 Aug 2026

Course Overview Hydrogen technologies are emerging as key...

Book



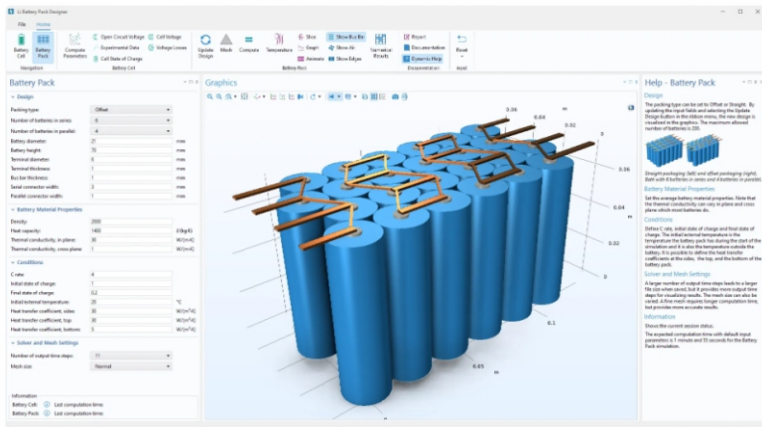
Certification Course on Acoustic Design and Analysis

20 Aug 2026 - 21 Aug 2026

Course Overview Acoustic engineering plays a critical role in product design...

Book

Certification Course on AI Implementation for Engineering Physics



Date	30 Sep 2026 – 01 Oct 2026
Time	09:30 AM – 05:30 PM
Mode	Offline
Type	Course
Organizer	Administrator
Location	

[Register Now](#)

DESCRIPTION

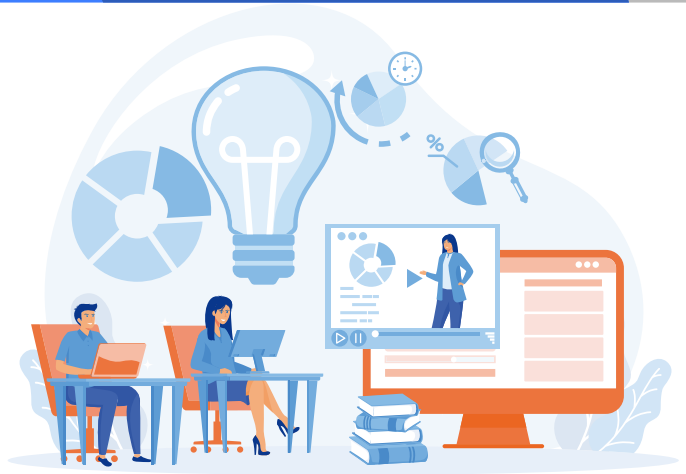
Artificial Intelligence (AI) is transforming engineering design by enabling surrogate modeling, optimization, predictive analytics, digital twins, and automated decision-making. This course introduces participants to the integration of AI and machine learning with physics-based simulations in COMSOL Multiphysics. Through COMSOL Application Library examples and engineering case studies, participants will learn how to generate simulation data, train AI models, build reduced-order models, and create intelligent engineering workflows. Course Objectives Upon completion of the course, participants will be able to Understand AI and machine learning concepts relevant to engineering physics. Generate high-quality simulation datasets using COMSOL. Develop AI-assisted surrogate models for engineering systems. Perform parameter prediction and optimization. Build digital twins using simulation and AI techniques. Integrate physics-based modeling with data-driven approaches.

- Modules & Sessions**
- Module 1: Fundamentals of AI for Engineering Physics (4 Hours)**
- Session 1: Introduction to AI in Engineering
 - Artificial Intelligence Overview
 - Machine Learning vs Physics-Based Modeling
 - Data-Driven Engineering
 - Digital Twins
 - Reduced Order Modeling
 - Industrial Applications of AI
 - Session 2: COMSOL-AI Workflow

Unlimited Certification Courses
Industry driven certification courses and workshops

InternInfinity – Projects and Internship Platform

InternInfinity offers access to over 2,000 industry-focused projects and internship opportunities. The platform enables learners to gain practical experience through simulation-based industrial projects, providing hands-on exposure and experiential learning that helps bridge the gap between academic knowledge and real-world industry requirements.



- Dashboard
- Apps
- Internship
- Support
- Settings

Total Projects

1,942

Completed

0

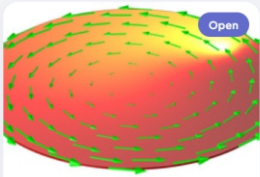
Approved

1,942

Pending Approval

0

Recent Projects

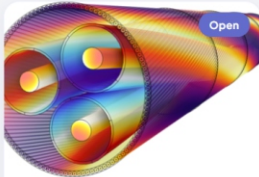


Laser Heating of a Silicon Wafer

01 Dec 2025

A silicon wafer is heated up by a laser that moves radially in and out over time...

[Apply](#)

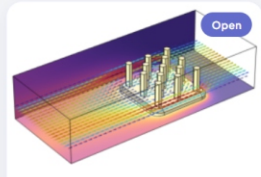


Cable Tutorial Series

01 Dec 2025

In this set of eight tutorial models and associated documentation, you can...

[Apply](#)

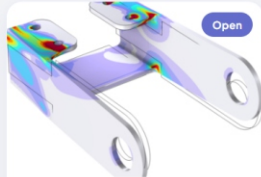


Heat Sink

01 Dec 2025

This model is intended as a first introduction to simulations of fluid flow...

[Apply](#)




Bracket – Structural Mechanics Tutorials

01 Dec 2025

The bracket models are used as an introduction to structural mechanics...

[Apply](#)

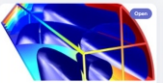


Thermal Actuator – Parameterized

04 Jun 2024

This tutorial model of a piezo-actuator simulates thermal expansion to create a controlled displacement.

[Apply](#)

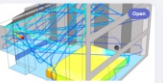


Analysis of NO_x and Ammonia Conversion Kinetics in a Dual-Fluid Plug-Flow Reactor

08 Jun 2024

This suite of examples illustrates the modeling of catalytic reactor behavior under various flow conditions.

[Apply](#)

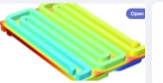


Small Concert Hall Acoustics

08 Jun 2024

Designing structures and open spaces with respect to sound quality is important for concert halls.

[Apply](#)

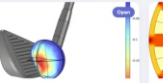


Low-Temperature PEM Fuel Cell with Serpentine Flow Field

08 Jun 2024

This tutorial explores the current distribution in a low-temperature PEM fuel cell using serpentine...

[Apply](#)

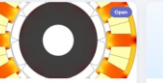


Impact Analysis of a Golf Ball

08 Jun 2024

In this example, the mechanical impact of a golf club hitting a golf ball is studied. The reaction...

[Apply](#)

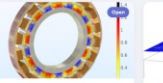


Permanent Magnet Motor in 2D

08 Jun 2024

In this tutorial, a PM motor with 12 stator poles and 10 rotor poles is modeled in 2D. It includes the...

[Apply](#)

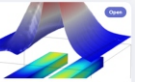


Permanent Magnet Motor in 3D

08 Jun 2024

Permanent magnet (PM) motors are used in many high-end applications, such as electric cars, and...

[Apply](#)

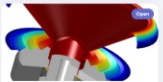


Directional Coupler

08 Jun 2024

Two embedded optical waveguides in close proximity have electro-optical coupling. The coupling...

[Apply](#)

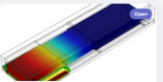


Loudspeaker Driver – Frequency-Domain Analysis

08 Jun 2024

This example shows how to model a loudspeaker driver in the frequency domain.

[Apply](#)

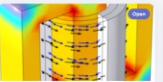


A 3D Bessel Resonator: Stationary, Eigenfrequency, Frequency Domain, and

08 Jun 2024

An electromechanically actuated MEMS resonator is simulated in the time and frequency domains. The...

[Apply](#)

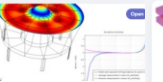


E-Core Transformer

08 Jun 2024

This is the equivalent model of a single phase E-core transformer using a homogenized approach for...

[Apply](#)




The Brüel & Kjaer 4134 Condenser Microphone

08 Jun 2024

This is a model of the Brüel and Kjaer 4134 BNC 4134 condenser microphone. The geometry and...

[Apply](#)

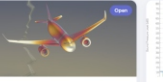


Fuel Cell Stack Cooling

08 Jun 2024

This tutorial models the thermal management of a polymer electrolyte membrane (PEM) fuel cell...

[Apply](#)

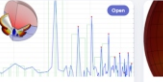


Lightning-Induced Voltage of a Wire in an Airplane

08 Jun 2024

The model demonstrates how to compute the induced voltage of a wire located inside an airplane...

[Apply](#)

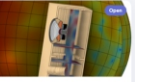


Loudspeaker Driver – Transient Analysis

08 Jun 2024

In this model, a full transient analysis of a loudspeaker driver is performed, which allows the...

[Apply](#)



Loudspeaker Driver in a Vented Enclosure

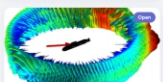
08 Jun 2024

This tutorial models the acoustic behavior of a loudspeaker driver mounted in a vented enclosure.

[Apply](#)

2000+ Projects

Course wise, industry wise, projects and research internship

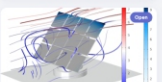


Submarine Target Strength

08 Jun 2024

The primary objective of a submarine lies in its ability to remain hidden during operation, etc.

[Apply](#)

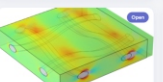


Solar Panel in Periodic Flow

08 Jun 2024

This model explores the analysis of strong wind flow around a solar panel and the corresponding...

[Apply](#)

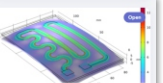


Homogenized Material Properties of Periodic Microstructures

08 Jun 2024

Periodic microstructures are frequently found in composite materials, metallic foams, and...

[Apply](#)

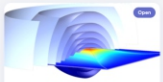


Heating Circuit

08 Jun 2024

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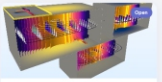


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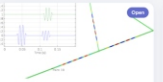


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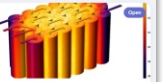


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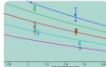
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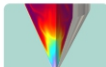
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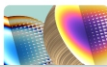
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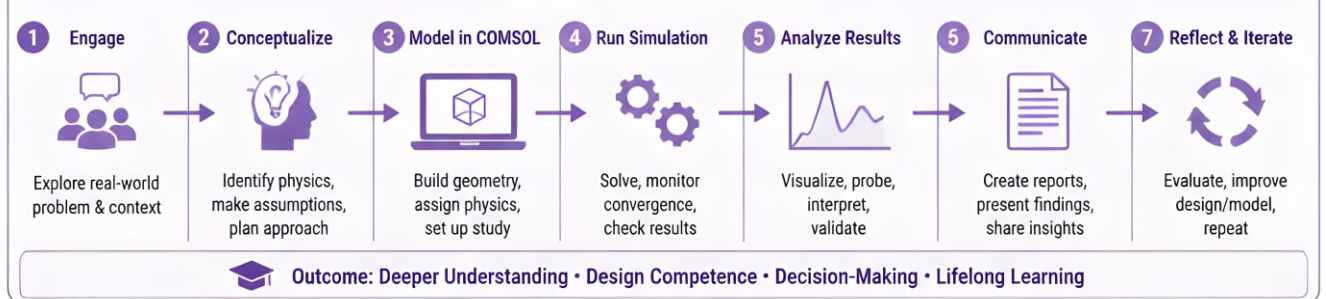
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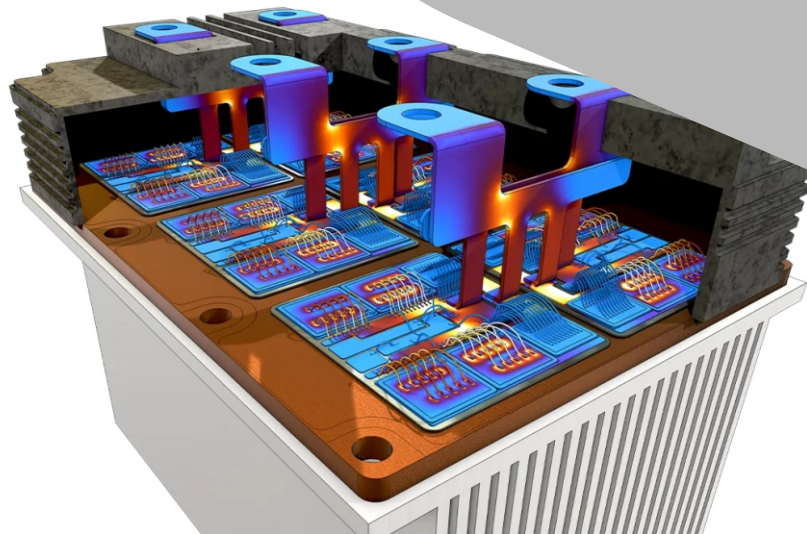
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