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A question that we are asked all of the time is if COMSOL Multiphysics can model laser-material interactions and heating. The answer, of course, depends on exactly what type of problem you want to solve, as different modeling techniques are appropriate for different problems. Today, we will discuss various approaches for simulating the heating of materials illuminated by laser light.

[Overview of Integration Methods in Space and Time | COMSOL...](#)

The International Conference PhysicA.SPb was held 19-23 October 2020 in Saint-Petersburg, Russia. The Conference continues the tradition of Saint-Petersburg Seminars on Physics and Astronomy originating from mid-90s. Since then PhysicA.SPb maintains both scientific and educational quality of contributions delivered to the audience. This is the ...

[::LAVteam:: » 5](#)

The applied processes were presented by clinching, riveting, gluing, and ultrasonic welding. Many disadvantages appeared with the listed joining methods, such as low strength in the joined area, long process time, high costs, and low flexibility. Furthermore, additional pre-preparations are required, like drilling holes, polishing, and surface treatment, which lead to long process times and ...

[lcmiee2020 - kuet.ac.bd](#)

In the history of Starfleet, many officers have held the various flag officer ranks: (commodore, rear admiral, vice admiral, admiral, and fleet admiral). 1 List of prime reality flag officers 1.1 Fleet admirals 1.2 Admirals 1.3 Vice admirals 1.4 Rear admirals 1.5 Commodores 1.6 Other 1.7 Illusory flag officers 1.8 Unnamed flag officers 2 List of alternate reality flag officers 2.1 Fleet ...

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(CFD, Computational fluid dynamics) - (Navier-Stokes Equations) (Finite
Difference Method), (Finite Element Method), (Finite Volume Method) ...

[Buckling Analysis with FEA | Machine Design](#)

Engineering Research Express (ERX) is a broad, multidisciplinary journal devoted to publishing new experimental and theoretical research covering topics extending across all areas of engineering science including interdisciplinary fields.

[Department of Mathematics, University of Manchester ...](#)

The modified rigorous coupled-wave analysis technique is developed to describe the optical characteristics of the plasmonic structures with the grating-gated delta-thin conductive channel in the far- and near-field zones of electromagnetic waves. The technique was applied for analysis of the resonant properties of AlGa_N/Ga_N heterostructures combined with a deeply subwavelength metallic grating ...

[Millikelvin-resolved ambient thermography | Science Advances](#)

The simulation domain is presented in Fig. ... while one COMSOL simulation takes 5-10s, making it roughly 50 000 - 100 000 times faster. We thus take advantage of this feature by testing 128000 configurations at each of the 60 epoch of the training of the DCGAN. After each training of the DCGAN the 1000 best configurations are taken according to their predicted value of Ψ_p and are ...

[Fusion world | First plasma for China's HL-2M](#)

SPE Russian Oil and Gas Technical Conference and Exhibition; Society of Petroleum Engineers: Moscow, Russia, 2008; ... based on the subsurface Darcy's flow module in COMSOL Multiphysics, an effective numerical simulation method is presented here: The non-Darcy kinematic equation at the full pressure gradient range is expressed at the interface of the gravitational acceleration vector in Darcy ...

[Stretchable distributed fiber-optic sensors | Science](#)

The presented work is the result and contribution of the following projects: Horizon 2020 Project “ Design for Resource and Energy efficiency in CerAMic Kilns- DREAM Project (Grant No: 723641), Horizon 2020 Industrial THERMal energy recovery conversion and management (Grant No: 680599) and ESPRC (Grant No: EP/P004636/1). Recommended articles Citing articles (0) References. I. Johnson, W.T ...

[What is the basic idea behind the twisted pair? Why are ...](#)

established in COMSOL Multiphysics 5.3a while the PB- ECM-T was implemented in MA TLAB R2016a environment. The simulation results from using these models are pre-

[Nicolás Andrés Bastián Monarca - Director de Ingeniería ...](#)

China has been developing the lithium ion battery with higher energy density in the national strategies, e.g., the “ Made in China 2025 ” project . Fig. 2 shows the roadmap of the lithium ion battery for EV in China. The goal is to reach no less than 300 Wh kg⁻¹ in cell level and 200 Wh kg⁻¹ in pack level before 2020, indicating that the total range of an electric car can be extended ...