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Introduction to materials modeling and simulations
Accurate~~efficient modeling of reinforced plastic parts with Digimat-RP (DEMO: MSC Marc) Digimat RP+Demo3 SD~~
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Digimat-VA ("Virtual Allowables") is an efficient solution that empowers engineers to virtually compare materials before going into the lengthy physical allowables. By generating virtual allowables, engineers can now start the component design in parallel to the physical allowable campaign.

Digimat - The Material Modeling Platform
DigiMat A unique educational program, unifying math and programming. From preschool to top academic and professional. Developed by leading scientists.

DigiMat
Digimat is a core technology of 10xICME Solution and is used to perform detailed analyses of materials on the microscopic level and to derive micromechanical material models suited for multi-scale coupling of the micro- and macroscopic level. Digimat material models provide the means to combine processing simulation with structural FEA.

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Digimat is used by CAE engineers, specialists in manufacturing processes of composite materials, and materials scientists to accurately predict the nonlinear micromechanical behavior of complex multi-phase composite materials and structures.

Digimat - MSC Software
e-Xstream engineering is a software and engineering services company 100% focused on state-of-the-art multi-scale modeling of complex multi-phase composites materials and structures (PMC, RMC, MMC, nanocomposites, hard metals, etc).

Digimat, The material modeling platform
Digimat-FE is a micromechanical material modeling software using a direct finite element representation of a realistic representative volume element of the reinforced plastic microstructure. Digimat-FE is complementary and fully interoperable with Digimat-MF. The main advantages of Digimat-FE with respect to Digimat-MF are: 1.

DIGIMAT for ENGINEERING PLASTICS - MSC Software
Particle reinforced metal matrix composites are playing a vital role in many applications, such as aerospace, aviation and automotive industry. According to ...

Multi-Scale Material Modeling and Analysis of Composites ...
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This book comprises select proceedings of the International Conference on Recent Innovations and Developments in Mechanical Engineering (IC-RIDME 2018). The book contains peer reviewed articles covering thematic areas such as fluid mechanics, renewable energy, materials and manufacturing, thermal engineering, vibration and acoustics, experimental aerodynamics, turbo machinery, and robotics and mechatronics. Algorithms and methodologies of real-time problems are described in this book. The contents of this book will be useful for both academics and industry professionals.

The first International Conference on Engineering Solutions and Sustainable Development which is organized by the University of Miskolc, Hungary is a significant and timely initiative creating the capacity of engineering students, educators, practicing engineers and industries to demonstrate values, problem solving skills, knowledge, and attitude that are required to apply the principles of sustainable development throughout their professional career. The aim of the ICESSD conference was creating an interdisciplinary platform for researchers and practitioners to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Technical and Environmental Science. The conference covers the following topics: Process Engineering, Modelling and Optimisation Sustainable and Renewable Energy and Energy Engineering Waste Management and Reverse Logistics Environmental Management and Ecodesign Circular Economy and Life Cycle Approaches Smart Manufacturing and Smart Buildings Innovation and Efficiency Earth Science Academics, scientists, researchers and professionals from different countries and continents have contributed to this book.

As one of the results of an ambitious project, this handbook provides a well-structured directory of globally available software tools in the area of Integrated Computational Materials Engineering (ICME). The compilation covers models, software tools, and numerical methods allowing describing electronic, atomistic, and mesoscopic phenomena, which in their combination determine the microstructure and the properties of materials. It reaches out to simulations of component manufacture comprising primary shaping, forming, joining, coating, heat treatment, and machining processes. Models and tools addressing the in-service behavior like fatigue, corrosion, and eventually recycling complete the compilation. An introductory overview is provided for each of these different modelling areas highlighting the relevant phenomena and also discussing the current state for the different simulation approaches. A must-have for researchers, application engineers, and simulation software providers seeking a holistic overview about the current state of the art in a huge variety of modelling topics. This handbook equally serves as a reference manual for academic and commercial software developers and providers, for industrial users of simulation software, and for decision makers seeking to optimize their production by simulations. In view of its sound introductions into the different fields of materials physics, materials chemistry, materials engineering and materials processing it also serves as a tutorial for students in the emerging discipline of ICME, which requires a broad view on things and at least a basic education in adjacent fields.

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Presenting the results of an ambitious project, this book summarizes the efforts towards an open, web-based modular and extendable simulation platform for materials engineering that allows simulations bridging several length scales. In so doing, it covers processes along the entire value chain and even describes such different classes of materials as metallic alloys and polymers. It comprehensively describes all structural ideas, the underlying concepts, standard specifications, the verification results obtained for different test cases and additionally how to utilize the platform as a user and how to join it as a provider. A resource for researchers, users and simulation software providers alike, the monograph provides an overview of the current status, serves as a generic manual for prospective users, and offers insights into the inner modular structure of the simulation platform.