

Resource Summary Report

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Abaqus FEA

RRID:SCR_024997

Type: Tool

Proper Citation

Abaqus FEA (RRID:SCR_024997)

Resource Information

URL: <https://www.3ds.com/products/simulia/abacus>

Proper Citation: Abaqus FEA (RRID:SCR_024997)

Description: Software suite for finite element analysis and computer aided engineering.

Synonyms: Simulia Abaqus FEA

Resource Type: software resource, software application

Keywords: Simulia, finite element analysis, computer aided engineering,

Availability: Restricted

Resource Name: Abaqus FEA

Resource ID: SCR_024997

Alternate URLs: <https://en.wikipedia.org/wiki/Abaqus>

License: Proprietary commercial

Record Creation Time: 20240209T050239+0000

Record Last Update: 20260808T043023+0000

Ratings and Alerts

No rating or validation information has been found for Abaqus FEA.

No alerts have been found for Abaqus FEA.

Data and Source Information

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Dong Z, et al. (2026) Femoral finite element analysis of a novel cementless revision total knee arthroplasty system. Scientific reports, 16(1).

Jamshidian M, et al. (2025) 4D-CTA image and geometry dataset for kinematic analysis of abdominal aortic aneurysms. Data in brief, 61, 111797.

Yuan W, et al. (2025) Finite element analysis of the seismic performance of wind and rain bridge. Scientific reports, 15(1), 26316.

Xie Y, et al. (2025) Thermal Insulation Efficiency and Mechanisms of Flexible Sandwich Structure. Materials (Basel, Switzerland), 18(7).

Liu W, et al. (2025) Numerical study on the effect of pile shape and loading direction on the lateral response of displacement pile in sand. Scientific reports, 15(1), 26653.

Wang X, et al. (2025) Research on the Anisotropic Fracture Mechanical Properties of Shale Based on Three-Point Bending Experiments of Semi-Circular Disks. Materials (Basel, Switzerland), 18(7).

Li H, et al. (2025) Design and in-situ biomimetic fabrication of a high-density strain sensor array for parachute canopy fabric. iScience, 28(2), 111794.

Jia Y, et al. (2025) Analysis of bearing characteristics of cantilever anti-slip pile based on cohesion model in acid rain corrosion environment. Scientific reports, 15(1), 23371.

G??nay E, et al. (2025) Analysis of the size effect in the nanoscratching process of single crystalline and polycrystalline materials. Scientific reports, 15(1), 29844.

Li X, et al. (2025) Multiscale computational modeling of 3D printed continuous Fiber reinforced polymer composites. Scientific reports, 15(1), 17596.

Chai H, et al. (2025) Research on the shear behavior of PBL connectors in steel fiber reinforced concrete composite beam. Scientific reports, 15(1), 5824.

Jia R, et al. (2025) Vibration response analysis of simply supported girder bridges using millimeter-wave radar measurements. Scientific reports, 15(1), 6679.

Bland J, et al. (2025) Comparison of diverse mandibular mechanics during biting in Devonian lungfishes. iScience, 28(7), 112970.

Yan Y, et al. (2025) AZ31 Magnesium Alloy Roll-Forming Springback Prediction Considering Anisotropic and Asymmetric Properties. Materials (Basel, Switzerland), 18(13).

Liu N, et al. (2025) Study on the mechanical mechanism and control optimization of station subsurface excavation by pile-beam-arch method. Scientific reports, 15(1), 8715.

Ji Y, et al. (2025) Probing mechanical attributes and microstructural ties in modified concrete blended with recycled rubber and straw powder. Scientific reports, 15(1), 8191.

Daoud ME, et al. (2025) Mapping residual stresses in AlSi10Mg alloy fabricated by powder bed fusion-laser beam method. Scientific reports, 15(1), 24784.

Awd M, et al. (2025) AI-Powered Very-High-Cycle Fatigue Control: Optimizing Microstructural Design for Selective Laser Melted Ti-6Al-4V. Materials (Basel, Switzerland), 18(7).

Wang C, et al. (2025) Research on mechanical properties of a new type of composite floor slab with split joint. Scientific reports, 15(1), 31424.

Ghaznavi Youvalari A, et al. (2025) Investigation of mechanical properties in PLA, ABS and epoxy resin parts fabricated by 3D printing technology. Scientific reports, 15(1), 27777.