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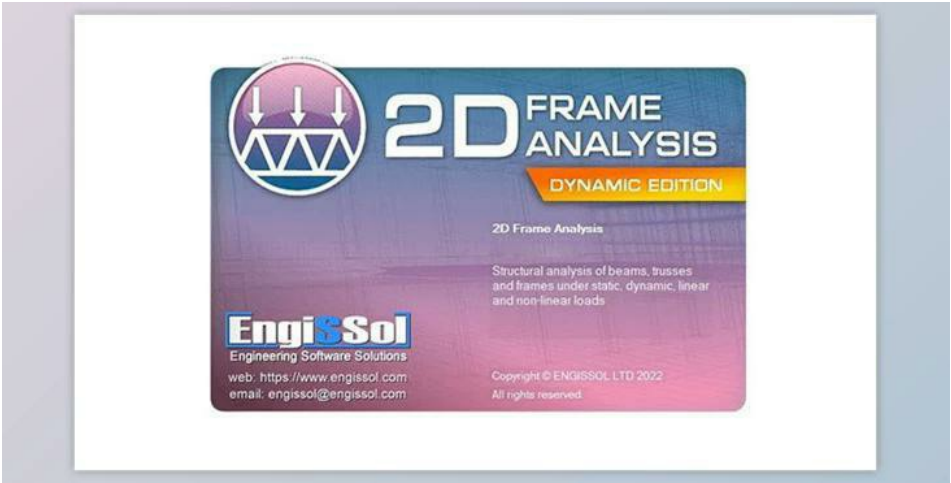# 2D Frame Analysis Dynamic Edition v7.3.1 (Win)

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2D Frame Analysis Dynamic Edition:

The Dynamic Edition of 2D Frame Analysis software is a comprehensive tool designed for the structural analysis of frames, beams, and trusses under static, dynamic, linear, and non-linear loads. It includes features from both the Static and Truss Editions and is capable of handling dynamic loads such as response spectrum and stepped time history analysis. The software automatically calculates dynamic modes, graphically representing modal shapes. It utilizes optimized finite elements for efficient analysis and supports non-linear static analysis for P-Delta effects. Results are compiled in a detailed calculation report, which can be exported in various formats such as PDF, DOC, and XLS. This versatile and user-friendly tool is ideal for engineers seeking to optimize time and costs in structural analysis.

"2D Frame Analysis Dynamic Edition" Sample:

The software offers robust analysis features for structural design, supporting various unit systems (Metric, Imperial, Custom) and an extensive list of predefined materials like concrete, steel, aluminum, and timber. It includes a large library of predefined cross-sections (European, AISC, Australian, etc.), template models for frames, trusses, and beams, and supports unlimited load cases and combinations. Key features include Timoshenko shear deformation elements, semi-rigid and flexible end releases, global/local coordinate systems, various load types (uniform, thermal, etc.), and nodal restraints (roller, hinge, etc.). Advanced analysis capabilities such as non-linear static analysis (second-order effects), dynamic modes, response spectrum, and time history functions are also supported. Results can be graphically displayed or exported in tabular form, with automated reports exportable to multiple formats (PDF, DOC, XLS). The software simplifies model creation and is compatible with 32/64-bit Windows systems across multiple versions.

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