TMS Analytics & Physics Pack v3.7.0.0 (06 Feb 2025) for Delphi XE7-12 Athens Full Source

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TMS Analytics & Physics Pack is a powerful Delphi library designed to simplify mathematical expression evaluation and analytical operations within Delphi applications. With this library, developers can effortlessly parse expressions, calculate values with multiple parameters, and perform expression-based derivatives and integration calculations. Additionally, it provides features for solving differential and non-linear equations and approximation function calculations.

Developers benefit from a 100% Delphi codebase and a strongly structured class hierarchy, ensuring ease of use and efficient integration into their projects. offers universal algorithms capable of handling formulae of any complexity, along with support for various physics concepts such as physical quantities and units of measurement. It also includes many predefined functions and entities, with the flexibility to introduce new functions and physics concepts.

Furthermore, the **TMS Analytics & Physics Pack** facilitates working with complex numbers, 3D vectors, tensors, and indexed data like arrays and matrices. It supports analytical derivative calculation, conditional functions, and special extensions for calculating special functions and their derivatives. The library is platform-independent and compatible with VCL and FMX applications across Windows, macOS, iOS, and Android platforms. Additional extensions include support for fractions in mathematical expressions, approximation tools for multidimensional data, numerical integration, solving ordinary differential equations, function analysis, and solving systems of nonlinear equations.

Key Features of **TMS Analytics & Physics Pack** :

1. 100% Delphi codebase
2. Strongly structured class hierarchy
3. Universal algorithms for handling complex mathematical formulae
4. Support for physics concepts like physical quantities and units of measurement
5. Extensive predefined functions and entities
6. Easy introduction of new functions and physics concepts
7. Operator overloading support
8. Handling of complex numbers, 3D vectors, tensors, and indexed data
9. Analytical derivative calculation
10. Conditional functions, including support for real, complex, and fractions
11. Special extensions for calculating special functions and derivatives
12. Platform-independent: compatible with VCL and FMX applications on Windows, macOS, iOS, and Android
13. Fraction extension for mathematical expressions
14. Approximation tools for multidimensional data
15. Numerical integration capabilities
16. ODE solver for systems of ordinary differential equations
17. Function analysis tools for finding roots and extremums
18. Nonlinear solver for systems of nonlinear equations

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