

ChAD2000Plus[®] SOURCE CODE

ChAD2000Plus SOURCE CODE is implementable in VB6 and VBA EXCEL

_MATRIX CALCULATION

Determinant

Sum

Subtraction

Inversion

statistics

Eigenvalues

NUMERIC CALCULATION

Factorial

DERIVATIVE, INTEGRAL of POINT FUNCTION

DERIVATIVE, _INTEGRAL, FUNCTION

DIFFERENZIAL EQUATION (1° and 2° ORDER)

SYSTEMS of DIFFERENZIALEQUATIONS

FUNCTION _BESSEL

FUNCTION _FOURIER

FUNZIONI_ INVERSE

TRIGONOMETRICH INVERSE FUNCTIONS

MIN_MAX, ZERO of FUNCTIONS

DATA SORTING

REGRESSIONS: linear. Logarithmic, exponential,
polynomial

MULTIPLE REGRESSION_ANALYSIS

THERMODYNAMICS

'THERMODYNAMIC and thermophysical PROPERTIES of the PURE FLUID and MIXED DEFINED or USER DEFINED.

HEAT TRANSMISSION $dq / dt = \lambda / \rho * Cp \cdot T$

STEADY and TRANSIENT THERMAL ANALYSIS with FINISHED DIFFERENCES

$\partial T / \partial x = \lambda / (\rho * Cp) * (\partial^2 T / \partial x^2)$

CALCULATION OF HEAT EXCHANGERS FINNED and FLAT to AIR-FLUID external natural and forced convection

FLUID DYNAMICS

BALANCING of FLUID NETWORKS OPEN and MIXED