

2.5 Euler–Cauchy Equations

Euler–Cauchy equations⁴ are ODEs of the form

$$(1) \quad x^2 y'' + axy' + by = 0$$

with given constants a and b and unknown function $y(x)$. We substitute

$$y = x^m, \quad y' = mx^{m-1}, \quad y'' = m(m-1)x^{m-2}$$

into (1). This gives

$$x^2 m(m-1)x^{m-2} + axmx^{m-1} + bx^m = 0$$

and we now see that $y = x^m$ was a rather natural choice because we have obtained a common factor x^m . Dropping it, we have the auxiliary equation $m(m-1) + am + b = 0$ or

$$(2) \quad m^2 + (a-1)m + b = 0. \quad (\text{Note: } a-1, \text{ not } a.)$$

Hence $y = x^m$ is a solution of (1) if and only if m is a root of (2). The roots of (2) are

$$(3) \quad m_1 = \frac{1}{2}(1-a) + \sqrt{\frac{1}{4}(1-a)^2 - b}, \quad m_2 = \frac{1}{2}(1-a) - \sqrt{\frac{1}{4}(1-a)^2 - b}.$$

Case I. Real different roots m_1 and m_2 give two real solutions

$$y_1(x) = x^{m_1} \quad \text{and} \quad y_2(x) = x^{m_2}.$$

These are linearly independent since their quotient is not constant. Hence they constitute a basis of solutions of (1) for all x for which they are real. The corresponding general solution for all these x is

$$(4) \quad y = c_1 x^{m_1} + c_2 x^{m_2} \quad (c_1, c_2 \text{ arbitrary}).$$

EXAMPLE 1 General Solution in the Case of Different Real Roots

The Euler–Cauchy equation $x^2 y'' + 1.5xy' - 0.5y = 0$ has the auxiliary equation $m^2 + 0.5m - 0.5 = 0$. The roots are 0.5 and -1 . Hence a basis of solutions for all positive x is $y_1 = x^{0.5}$ and $y_2 = 1/x$ and gives the general solution

$$y = c_1 \sqrt{x} + \frac{c_2}{x} \quad (x > 0). \quad \blacksquare$$

⁴LEONHARD EULER (1707–1783) was an enormously creative Swiss mathematician. He made fundamental contributions to almost all branches of mathematics and its application to physics. His important books on algebra and calculus contain numerous basic results of his own research. The great French mathematician AUGUSTIN LOUIS CAUCHY (1789–1857) is the father of modern analysis. He is the creator of complex analysis and had great influence on ODEs, PDEs, infinite series, elasticity theory, and optics.

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Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 This is the first Supplementary volume to Kluwer's highly acclaimed Encyclopaedia of Mathematics. This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set. These entries have been arranged alphabetically throughout. A detailed index is included in the book. This Supplementary volume enhances the existing 10 volume set. Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available.

Advanced Methods of Joint Inversion and Fusion of Multiphysics Data Michael S. Zhdanov, 2023-12-28 Different physical or geophysical methods provide information about distinctive physical properties of the objects e.g. rock formations and mineralization. In many cases this information is mutually complementary which makes it natural for consideration in a joint inversion of the multiphysics data. Inversion of the observed data for a particular experiment is subject to considerable uncertainty and ambiguity. One productive approach to reducing uncertainty is to invert several types of data jointly. Nonuniqueness can also be reduced by incorporating additional information derived from available a priori knowledge about the target to reduce the search space for the solution. This additional information can be incorporated in the form of a joint inversion of multiphysics data. Generally established joint inversion methods however are inadequate for incorporating typical physical or geological complexity. For example analytic empirical or statistical correlations between different physical properties may exist for only part of the model and their specific form may be unknown. Features or structures that are present in the data of one physical method may not be present in the data generated by another physical method or may not be equally resolvable. This book presents and illustrates several advanced new approaches to joint inversion and data fusion which do not require a priori knowledge of specific empirical or statistical relationships between the different model parameters or their attributes. These approaches include the following novel methods among others: 1. the Gramian method which enforces the correlation between different parameters 2. joint total

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Mathematical Neuroscience Stanislaw Brzychczy, Roman R. Poznanski, 2013-08-16 Mathematical Neuroscience is a book for mathematical biologists seeking to discover the complexities of brain dynamics in an integrative way It is the first research monograph devoted exclusively to the theory and methods of nonlinear analysis of infinite systems based on functional analysis techniques arising in modern mathematics Neural models that describe the spatio temporal evolution of coarse grained variables such as synaptic or firing rate activity in populations of neurons and often take the form of integro differential equations would not normally reflect an integrative approach This book examines the solvability of infinite systems of reaction diffusion type equations in partially ordered abstract spaces It considers various methods and techniques of nonlinear analysis including comparison theorems monotone iterative techniques a truncation method and topological fixed point methods Infinite systems of such equations play a crucial role in the integrative aspects of neuroscience modeling The first focused introduction to the use of nonlinear analysis with an infinite dimensional approach to theoretical neuroscience Combines functional analysis techniques with nonlinear dynamical systems applied to the study of the brain Introduces powerful mathematical techniques to manage the dynamics and challenges of infinite systems of equations applied to neuroscience modeling

Ordinary Differential Equations and Applications I: With Maple Examples, 2024-12-10 Ordinary Differential Equations and Applications I with Maple Examples blends the theory and practical applications of Ordinary Differential Equations ODEs with real world examples using Maple and MapleSim software It covers fundamental ODE concepts from first order equations to more advanced topics like the Laplace and Mellin transforms Fourier series and power series solutions The book includes detailed Maple examples demonstrating symbolic solutions 2D and 3D plotting and animated solution paths Designed for undergraduate and postgraduate students in mathematics physics engineering and other fields it is also a valuable resource for professionals The book addresses various applications in biology economics chemistry and medicine Key Features In depth coverage of ODEs with real world applications Maple examples for symbolic solutions plotting and animations Exploration of Laplace Mellin and Fourier series methods

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Partial Differential Equations Michael Shearer, Rachel Levy, 2015-03-01 An accessible yet rigorous introduction to partial differential equations This textbook provides beginning graduate students and advanced undergraduates with an accessible introduction to the rich subject of partial differential equations PDEs It presents a rigorous and clear explanation of the more elementary theoretical aspects of PDEs while also drawing connections to deeper analysis and applications The book serves as a needed bridge between basic undergraduate texts and more advanced books that require a significant background in functional analysis Topics include first order equations and the method of characteristics second order linear equations wave and heat equations Laplace and Poisson

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