2.5 Euler–Cauchy Equations

Euler–Cauchy equations[5] are ODEs of the form

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

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

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

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

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

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

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

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

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

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

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[5] **LEONHARD 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.

Full Solutions Of Kreyszig Mathematics

Oscar Castillo,Gökhan Çuvalcıoğlu,Feride Tuğrul

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but certain problems arising in fields such as mathematical physics and engineering also exhibit characteristics similar to them The term classical distinguishes the formulation of these problems from their weak formulation in which the solution need not possess classical derivatives Under suitable assumptions a weak solution could be as good as a classical solution In hyperbolic Stefan problems the characteristic features of Stefan problems are present but unlike in Stefan problems discontinuous solutions are allowed because of the hyperbolic nature of the heat equation The numerical solutions of inverse Stefan problems and the analysis of direct Stefan problems are so integrated that it is difficult to discuss one without referring to the other So no strict line of demarcation can be identified between a classical Stefan problem and other similar problems On the other hand including every related problem in the domain of classical Stefan problem would require several volumes for their description A suitable compromise has to be made The basic concepts modelling and analysis of the classical Stefan problems have been extensively investigated and there seems to be a need to report the results at one place This book attempts to answer that need   **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

variation functional or joint focusing stabilizers e g minimum support and minimum gradient support constraints 3 data fusion employing a joint minimum entropy stabilizer which yields the simplest multiphysics solution that fits the multi modal data In addition the book describes the principles of using artificial intelligence AI in solving multiphysics inverse problems The book also presents in detail both the mathematical principles of these advanced approaches to joint inversion of multiphysics data and successful case histories of regional scale and deposit scale geophysical studies to illustrate their indicated advantages   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   **Journal of Mathematics and Mechanics** ,1957   **Heat Kernel and Analysis on Manifolds** Alexander Grigoryan,2009 The heat kernel has long been an essential tool in both classical and modern mathematics but has become especially important in geometric analysis as a result of major innovations beginning in the 1970s The methods based on heat kernels have been used in areas as diverse as analysis geometry and probability as well as in physics This book is a

comprehensive introduction to heat kernel techniques in the setting of Riemannian manifolds which inevitably involves analysis of the Laplace Beltrami operator and the associated heat equation The first ten chapters cover the foundations of the subject while later chapters deal with more advanced results involving the heat kernel in a variety of settings The exposition starts with an elementary introduction to Riemannian geometry proceeds with a thorough study of the spectral theoretic Markovian and smoothness properties of the Laplace and heat equations on Riemannian manifolds and concludes with Gaussian estimates of heat kernels Grigor yan has written this book with the student in mind in particular by including over 400 exercises The text will serve as a bridge between basic results and current research Titles in this series are co published with International Press Cambridge MA USA   Nonlinear Dispersive Equations Jaime Angulo Pava,2009 This book provides a self contained presentation of classical and new methods for studying wave phenomena that are related to the existence and stability of solitary and periodic travelling wave solutions for nonlinear dispersive evolution equations Simplicity concrete examples and applications are emphasized throughout in order to make the material easily accessible The list of classical nonlinear dispersive equations studied include Korteweg de Vries Benjamin Ono and Schrodinger equations Many special Jacobian elliptic functions play a role in these examples The author brings the reader to the forefront of knowledge about some aspects of the theory and motivates future developments in this fascinating and rapidly growing field The book can be used as an instructive study guide as well as a reference by students and mature scientists interested in nonlinear wave phenomena   Matrix Analysis of Frame Structures Suchart Limkatanyu,2025-09-24 Advancing computer technology has created new opportunities for sophisticated assessment and analysis of structural performance especially using matrix and finite element methods This textbook employs these methods using sophisticated computational techniques through simple step by step processes It covers the fundamentals required in any approach to structural analysis strong form equilibrium and compatibility and includes an introduction to virtual work principles to express equilibrium and compatibility conditions of a frame structure making use of Tonti diagrams It shows how to construct a master stiffness matrix using an approach based on a system without rigid body modes It then sets out in more detail the matrix approach to structural analysis including the construction of the master stiffness matrix This textbook is essential for senior undergraduates and graduate students and is also useful for consulting engineers   *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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