

## 2.5 Euler–Cauchy Equations

Euler–Cauchy equations<sup>4</sup> are ODEs of the form

$$(1) \quad x^2 y'' + a x y' + b y = 0$$

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

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

into (1). This gives

$$x^2 m(m-1)x^{m-2} + a x m x^{m-1} + b x^m = 0$$

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

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

<sup>4</sup>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

**S.C. Gupta**



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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

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