Revision: Differential Equations

(a) Use the integrating factor method to solve the DE

$$\frac{dy}{dx} + 2xy = x$$

$$a = e^{\int 2x\,dx} = e^{x^2}$$

$$e^{x^2}\left(\frac{dy}{dx} + 2xy\right) = x\,e^{x^2}$$

$$\frac{d}{dx}\left(y \cdot e^{x^2}\right) = x\,e^{x^2}$$

$$y\,e^{x^2} = \int x\,e^{x^2}\,dx$$

$$y\,e^{x^2} = \frac{1}{2}e^{x^2} + C$$

$$y = \frac{1}{2} + Ce^{-x^2}$$

(b) Write down the two first order DE's that you would need to solve to be able to find the solution to the 2nd order DE

$$\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = x$$

using the D- operator method.
(Do NOT solve these though!)

$$D^2 y + 2Dy + y = x$$

$$(D^2 + 2D + 1)y = x$$

$$(D+1)(D+1)y = x$$

let $u = (D+1)y$

① solve $(D+1)u = x$ for u

$$\left(\text{or } \frac{du}{dx} + u = x\right)$$

② solve $(D+1)y = u$ for y

$$\left(\text{or } \frac{dy}{dx} + y = u\right)$$

(c)
(i) Solve the DE

$$\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = 0$$

by finding the roots of the auxiliary equation.

$$m^2 + 2m + 1 = 0$$

$$(m+1)^2 = 0$$

$$m = -1 \ (\text{twice})$$

$$y_c = C_1 e^{-x} + C_2 x e^{-x}$$

(ii) Find a particular solution that satisfies the DE

$$\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = 2x+4$$

try $y_p = Ax + B$

$$y_p' = A, \quad y_p'' = 0$$

sub into the DE to get:

$$0 + 2A + Ax + B = 2x + 4$$

$x:$ $A = 2$

const: $2A + B = 4$, $B = 0$

so $y_p = 2x$

(iii) Use (i) and (ii) to write down the general solution to the DE

$$\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = 2x+4$$

$$y = y_c + y_p$$
$$= C_1 e^{-x} + C_2 x e^{-x} + 2x$$

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problems represent lost treasure from mathematical antiquity All solutions that were originally published in the journal are also included   Analysis, Manifolds and Physics, Part II - Revised and Enlarged Edition Y. Choquet-Bruhat,2000-11-08 Twelve problems have been added to the first edition four of them are supplements to problems in the first edition The others deal with issues that have become important since the first edition of Volume II in recent developments of various areas of physics All the problems have their foundations in volume 1 of the 2 Volume set Analysis Manifolds and Physics It would have been prohibitively expensive to insert the new problems at their respective places They are grouped together at the end of this volume their logical place is indicated by a number of parenthesis following the title   Notices of the American Mathematical Society American Mathematical Society,1993   **Cartesian Currents in the Calculus of Variations I** Mariano Giaquinta,Giuseppe Modica,Jiri Soucek,1998-08-19 This monograph in two volumes deals with non scalar variational problems arising in geometry as harmonic mappings between Riemannian manifolds and minimal graphs and in physics as stable equilibrium configuations in nonlinear elasticity or for liquid crystals The presentation is selfcontained and accessible to non specialists Topics are treated as far as possible in an elementary way illustrating results with simple examples in principle chapters and even sections are readable independently of the general context so that parts can be easily used for graduate courses Open questions are often mentioned and the final section of each chapter discusses references to the literature and sometimes supplementary results Finally a detailed Table of Contents and an extensive Index are of help to consult this monograph   The Kelvin Problem Denis Weaire,1997-09-09 In 1887 Kelvin posed one of the most discussed scientific questions of the last 100 years the problem of the division of three dimensional space into cells of equal volume with minimal area It has interested mathematicians physical scientists and biologists ever since and the problem has scientific relevance to foams emulsions and many other kinds of cells In the 1990s a more complex structure was discovered by Robert Phelan and Denis Weaire and it remains the best yet found This text assesses the various merits of Kelvin s structure and of that discovered by Weaire and Phelan It also looks at the problem of proof that Weaire s structure having minimal area remains open   *Cartesian Currents in the Calculus of Variations II* Mariano Giaquinta,Guiseppe Modica,Jiri Soucek,2013-03-14 Non scalar variational problems appear in different fields In geometry for in stance we encounter the basic problems of harmonic maps between Riemannian manifolds and of minimal immersions related questions appear in physics for example in the classical theory of a models Non linear elasticity is another example in continuum mechanics while Oseen Frank theory of liquid crystals and Ginzburg Landau theory of superconductivity require to treat variational problems in order to model quite complicated phenomena Typically one is interested in finding energy minimizing representatives in homology or homotopy classes of maps minimizers with prescribed topological singularities topological charges stable deformations i e minimizers in classes of diffeomorphisms or extremal fields In the last two or three decades there has been growing interest knowledge and understanding of the general theory for this kind of problems often referred to as geometric

variational problems Due to the lack of a regularity theory in the non scalar case in contrast to the scalar one or in other words to the occurrence of singularities in vector valued minimizers often related with concentration phenomena for the energy density and because of the particular relevance of those singularities for the problem being considered the question of singling out a weak formulation or completely understanding the significance of various weak formulations becames non trivial **Classical Field Theories** Bertrand Berche,Ernesto Medina,2025-03-18 This exceptional textbook provides extensive discussions and worked exercises to accompany a field theory course at the advanced undergraduate or beginning graduate level There are many questions that arise both philosophical and practical during a standard course in classical field theory that are addressed here in discussions between an advanced graduate student and her inquisitive undergrad friend The discussion involves explicitly working out exercises and making pertinent remarks on the results and potential of the developed formalism The book is ideal for readers who have taken or are taking the classical field theory course so that they already have a mathematical background in vector and tensor calculus and are willing to learn the basics of differential forms and exterior calculus to gain further insight into field theory formulation The text can also be used to answer what you ve always wanted to know but never dared to ask about field theory **23 Problems in Systems Neuroscience** J. Leo van Hemmen,Terrence J. Sejnowski,2005-12-08 The complexity of the brain and the protean nature of behavior remain the most elusive area of science but also the most important van Hemmen and Sejnowski invited 23 experts from the many areas from evolution to qualia of systems neuroscience to formulate one problem each Although each chapter was written independently and can be read separately together they provide a useful roadmap to the field of systems neuroscience and will serve as a source of inspirations for future explorers of the brain Problems and Solutions in Differential Geometry, Lie Series, Differential Forms, Relativity, and Applications W. -H Steeb,2017-10-24 A collection of problems and solutions in differential geometry with applications **Probability and Random Variables** G P Beaumont,2005-03-15 This undergraduate text distils the wisdom of an experienced teacher and yields to the mutual advantage of students and their instructors a sound and stimulating introduction to probability theory The accent is on its essential role in statistical theory and practice built on the use of illustrative examples and the solution of problems from typical examination papers Mathematically friendly for first and second year undergraduate students the book is also a reference source for workers in a wide range of disciplines who are aware that even the simpler aspects of probability theory are not simple Provides a sound and stimulating introduction to probability theory Places emphasis on the role of probability theory in statistical theory and practice built on the use of illustrative examples and the solution of problems from typical examination papers **Diffeology** Patrick Iglesias-Zemmour,2013-04-09 Diffeology is an extension of differential geometry With a minimal set of axioms diffeology allows us to deal simply but rigorously with objects which do not fall within the usual field of differential geometry quotients of manifolds even non Hausdorff spaces of functions groups of diffeomorphisms etc The category of diffeology objects is

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