ODE Cheat Sheet

First Order Equations

Separable

$$g'(x) = f(x)g(y)$$

$$\int \frac{dx}{dx} = \int f(x) dx + C$$

Linear First Order

$$y'(s) + p(x)y(s) = f(x)$$

 $\mu(x) = \sup_{x \in \mathcal{X}} \int_{-x}^{x} p(\xi) \ll \text{ integrating furtur.}$
 $(py)' = f_{P}$ Exact Derivative.
Solutions $y(s) = \frac{1}{|x|} \{ \int f(\xi) \mu(\xi) d\xi + C \}$

Example.

$$0 = M(x, y) dx = N(x, y) dy$$

Solution: $u(x, y) = \text{count where}$
 $du = \frac{\partial u}{\partial x} dx + \frac{\partial u}{\partial x} dy$ Constitue: $M_y = N_x$
 $\frac{\partial u}{\partial x} = M(x, y)$, $\frac{\partial u}{\partial x} = N(x, y)$

Non-Exact Form.

$$\begin{split} &\mu(x,y)\left(M(x,y)\,dx+N(x,y)\,dy\right)=du(x,y)\\ &M_{q}=N_{z}\\ &N_{z}^{2q}-M_{z}^{2q}=\mu\left(\frac{2\pi c}{2q}-\frac{2N}{2C}\right). \end{split}$$

Special cases

If
$$\frac{M_{\mathbf{x}_{\mathbf{y}}}N_{\mathbf{x}}}{M_{\mathbf{x}_{\mathbf{y}}}N_{\mathbf{x}}} = h(\mathbf{y})$$
, then $\mu(\mathbf{y}) = \exp \int h(\mathbf{y}) d\mathbf{y}$.
If $\frac{M_{\mathbf{x}_{\mathbf{y}}}N_{\mathbf{x}_{\mathbf{y}}}}{M_{\mathbf{x}_{\mathbf{y}}}} = -h(\mathbf{x})$, then $\mu(\mathbf{y}) = \exp \int h(\mathbf{x}) d\mathbf{x}$.

Second Order Equations

Linear

$$a(x)g''(x) = b(x)g'(x) + c(x)g(x) = f(x)$$

 $g(x) = g_0(x) + g_0(x)$
 $g_0(x) = c_1g_1(x) + c_2g_2(x)$

Constant Coefficients

$$\exp^{i\alpha}(x) + bg^{\alpha}(x) + eg(x) \sim f(x)$$

 $g(x) = e^{-x} \rightarrow oe^{\beta} + be + c \rightarrow 0$

Distinct, and mosts:
$$r = r_{1,2}$$
, $y_{1}(x) = r_{1}e^{r_{1}x} + c_{2}e^{r_{2}x}$
One and root: $y_{1}(x) = (r_{1} + c_{2}x)e^{r_{2}x}$
Complex mate: $r = a \ge i\beta$, $y_{1}(x) = (c_{1} \cos \beta x + c_{2} \sin \beta x)e^{i\alpha x}$

Cauchy-Enler Equations

$$ax^2y''(x) + bxy'(x) + cy(x) = f(x)$$

 $y(x) = x'' \Rightarrow ax(x-1) + bx + c = 0$

Distinct, and matter
$$r = r_{1,2}$$
, $y_1(x) = r_1x^{r_2} + r_2x^{r_2}$.
One real next: $y_1(x) = (r_1 + r_2 \ln |x|)x^x$.
Complex rests: $r = \alpha \otimes i\beta$,
 $y_1(x) = (r_1 \cos(\beta \ln |x|) + r_2 \sin(\beta \ln |x|))x^\alpha$.

Nonhomogeneous Problems

Method of Undetermined Coefficients

$$f(x)$$
 $g_{\mu}(x)$
 $a_{\mu}x^{\mu} + \cdots + a_{1}x + a_{1}$ $A_{\mu}x^{\mu} + \cdots + A_{1}x + A_{0}$
 $a_{\mu}^{\lambda \mu}$ $A_{\mu}^{\lambda \mu}$
 $a_{\mu}^{\lambda \mu}$ $A_{\mu}^{\lambda \mu}$
 $a_{\mu}^{\lambda \mu}$ $A_{\mu}^{\lambda \mu}$

Modified Method of Undetermined Coefficients: if au-

term in the game $y_{\alpha}(x)$ is a solution of the homogeneous remarkers. then southinly the guess by at, where h is the exactled positive integer such that no term is $x^{\pm}q_{\omega}(x)$ is a pulation of the homogeneous problem.

Reduction of Order

Homogeneous Case

Given $y_k(x)$ satisfies L[y] = 0, find account linearly independent solution as vir) -- virigo(x), x -- v' satisfies a separable ODE.

Nonhormogeneous Case

Given $y_1(x)$ estinites L[y] = 0, find solution of L[y] = f as wish is wishing bit h. a is w' exitteless a first certer finess ODE.

Method of Variation of Parameters

$$g_{\mu}(x) = c_{\mu}(x)g_{\mu}(x) = c_{\mu}(x)g_{\mu}(x)$$

 $c_{\mu}^{*}(x)g_{\mu}(x) = c_{\mu}^{*}(x)g_{\mu}(x) = 0$
 $c_{\mu}^{*}(x)g_{\mu}^{*}(x) + c_{\mu}^{*}(x)g_{\mu}^{*}(x) = \frac{d_{\mu}^{*}(x)}{d_{\mu}^{*}}$

Applications

Free Fall

$$a^{\prime\prime\prime}(t) = -q$$

 $a^{\prime\prime}(t) = -q + f(s)$

Population Dynamics

$$P'(0) = kP(0)$$

 $P'(0) = kP(0) - kP^{0}(0)$

Newton's Law of Cooling

$$T^*(0) = -k(T(0) - T_n)$$

Oscillations

$$mx^{\mu}(t) + kx(t) = 0$$

 $mx^{\mu}(t) + kx^{\mu}(t) + kx(t) = 0$
 $mx^{\mu}(t) + bx^{\mu}(t) + kx(t) = F(t)$

Types of Damped Oscillation

Overdistaged, to 5 km/r Critically Discount, 87 or 4mir Carbindonisod, W. c. kmit

Numerical Methods

Euler's Method.

$$y_0 = y(x_0),$$

 $y_0 = y_{0-1} + \Delta x f(x_{n-1}, y_{0-1}), \quad n = 1, ..., N.$

Series Solutions

Taylor Method

$$f(x) \sim \sum_{n=0}^{\infty} e_n x^n, e_n = \frac{f(x) \cdot n}{n!}$$

- 1. Differentiate DE repeatedly.
- 2. Apply initial conditions.
- 3. Find Taylor coefficients.
- 4. Insert coefficients into scoles force for p(x).

Power Series Solution.

1. Let
$$y(x) = \sum_{n=0}^{\infty} c_n(x-a)^n$$
.

- 2. Find o'dell, o'dell.
- 3. Insert expansions in DE.
- 4. Collect like torsta using prindexing:
- 5. Find recurrence relation.
- Solve for coefficients and insert in p(x) series.

Ordinary and Singular Points

$$y'' + w(x)y' + h(x)y = 0$$
, x_0 is a
Ordinary point: $w(x), h(x)$ and analytic in $[x - x_0] \in H$
Regular simpoint point: $(x - x_0)w(x)$, $(x - x_0)^2h(x)$ have
convergent. Taylor noise about $x - x_0$.
Irregular simpoint point: Not ordinary or regular simpoint

Frobenius Method

police.

- 1. Let $y(x) = \sum_{n=0}^{\infty} r_n(x x_0)^{n+r}$.
- Obtain indicted equation s(r = 1) = qur = h.
- X. Find recurrence relation based on types of roots of indicted operation.
- 4. Solve for coefficients and insert in p(x) series.

Laplace Transforms

Transform Pairs

 $\delta \Omega = \delta \Omega$

$$a^{-1}$$
 a^{-1}
 a

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and matrices It elucidates key programming constructs including selection statements loop structures scripts and functions providing readers with a solid foundation in MATLAB programming The book's structure is carefully crafted to facilitate step by step learning with each chapter building upon previous knowledge Abundant examples and exercises reinforce understanding while dedicated sections on data visualisation algorithm development and practical applications in engineering science and finance demonstrate MATLAB s versatility across disciplines A distinguishing feature of this volume is its inclusion of laboratory work and coursework allowing readers to apply theoretical concepts to real world scenarios This hands on approach enhances the learning experience and prepares users for practical implementation of MATLAB in their respective fields In the current era of artificial intelligence this book serves as an essential resource for those seeking to leverage MATLAB's capabilities It not only equips readers with programming skills but also illustrates how MATLAB can be integrated into cutting edge research and industry applications *Ultimate Cheat Sheet for STEM Majors* Jonathan Tullis, 2017-08-18 My formula books are designed to flow with a modern college course from start to finish The student may use this material as a quick reference throughout the course or as a review for future courses The material also serves as a quick refresher for students returning to school or preparing for graduate school exams **Ultimat Cheat Sheet for** College Math Wesolvethem, 2017-07-03 Free math and physics resources via jjthetutor com My formula sheets and crash course books are designed to assist college students throughout their STEM degree I have isolated all of the most important information from all previous courses current courses and future courses that STEM majors must take i e Algebra Trigonometry PreCalculus Calculus all areas Linear Algebra Differential Equations Physics and more The Ultimate Cheat Sheet for Math & Physics Jonathan David, 2022-09-26 Students Within this textbook you will find all the necessary formulas for all math remember we all get stressed and overwhelmed Also the one answering all the questions in the front of the class is the one retaking the course The biggest mistake students make when attempting to solve a physics problem is reading the guestion Author Jonathan David Women in Numbers 2 Chantal David, Matilde Lalín, Michelle Manes, 2013-12-10 The second Women in Numbers workshop WIN2 was held November 6 11 2011 at the Banff International Research Station BIRS in Banff Alberta Canada During the workshop group leaders presented open problems in various areas of number theory and working groups tackled those problems in collaborations begun at the workshop and continuing long after This volume collects articles written by participants of WIN2 Survey papers written by project leaders are designed to introduce areas of active research in number theory to advanced graduate students and recent PhDs Original research articles by the project groups detail their work on the open problems tackled during and after WIN2 Other articles in this volume contain new research on related topics by women number theorists The articles collected here encompass a wide range of topics in number theory including Galois representations the Tamagawa number conjecture arithmetic intersection formulas Mahler measures Newton polygons the Dwork family elliptic curves cryptography and

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