

ODE Cheat Sheet

First Order Equations

Separable

$$y'(x) = f(x)g(y)$$
$$\int \frac{dy}{g(y)} = \int f(x) dx + C$$

Linear First Order

$$y'(x) + p(x)y(x) = f(x)$$
$$\mu(x) = \exp \int p(x) dx \quad \text{Integrating factor.}$$
$$(\mu y)' = \mu f \quad \text{Exact Derivative.}$$
$$\text{Solution: } y(x) = \frac{1}{\mu(x)} \left(\int f(x)\mu(x) dx + C \right)$$

Exact

$$0 = M(x, y) dx + N(x, y) dy$$
$$\text{Solution: } u(x, y) = \text{const where} \quad \text{Condition: } M_y = N_x$$
$$dx = \frac{\partial u}{\partial x} dx + \frac{\partial u}{\partial y} dy$$
$$\frac{\partial u}{\partial x} = M(x, y), \quad \frac{\partial u}{\partial y} = N(x, y)$$

Non-Exact Form

$$\mu(x, y) (M(x, y) dx + N(x, y) dy) = du(x, y)$$
$$M_y = N_x$$
$$N \frac{\partial \mu}{\partial y} - M \frac{\partial \mu}{\partial x} = \mu \left(\frac{\partial M}{\partial y} - \frac{\partial N}{\partial x} \right)$$

Special cases

$$\text{If } \frac{\partial M}{\partial y} = h(x), \text{ then } \mu(x) = \exp \int h(x) dx$$
$$\text{If } \frac{\partial N}{\partial x} = -h(x), \text{ then } \mu(x) = \exp \int h(x) dx$$

Second Order Equations

Linear

$$a(x)y''(x) + b(x)y'(x) + c(x)y(x) = f(x)$$
$$y(x) = y_h(x) + y_p(x)$$
$$y_h(x) = c_1 y_1(x) + c_2 y_2(x)$$

Constant Coefficients

$$ay''(x) + by'(x) + cy(x) = f(x)$$
$$y(x) = e^{rx} \Rightarrow ar^2 + br + c = 0$$

Cases

$$\text{Distinct, real roots: } r = r_{1,2}, y_h(x) = c_1 e^{r_1 x} + c_2 e^{r_2 x}$$

$$\text{One real root: } y_h(x) = (c_1 + c_2 x) e^{rx}$$

$$\text{Complex roots: } r = \alpha \pm i\beta, y_h(x) = (c_1 \cos \beta x + c_2 \sin \beta x) e^{\alpha x}$$

Cauchy-Euler Equations

$$ax^2 y''(x) + bx y'(x) + cy(x) = f(x)$$
$$y(x) = x^r \Rightarrow ar(r-1) + br + c = 0$$

Cases

$$\text{Distinct, real roots: } r = r_{1,2}, y_h(x) = c_1 x^{r_1} + c_2 x^{r_2}$$

$$\text{One real root: } y_h(x) = (c_1 + c_2 \ln|x|) x^r$$

$$\text{Complex roots: } r = \alpha \pm i\beta,$$

$$y_h(x) = (c_1 \cos(\beta \ln|x|) + c_2 \sin(\beta \ln|x|)) x^\alpha$$

Nonhomogeneous Problems

Method of Undetermined Coefficients

$$\begin{array}{ll} f(x) & y_p(x) \\ a_n x^n + \dots + a_1 x + a_0 & A_n x^n + \dots + A_1 x + A_0 \\ a_0 e^{ax} & A_0 e^{ax} \\ x \cos \omega x + b \sin \omega x & A \cos \omega x + B \sin \omega x \end{array}$$

Modified Method of Undetermined Coefficients If any term in the guess $y_p(x)$ is a solution of the homogeneous equation, then multiply the guess by x^k , where k is the smallest positive integer such that no term in $x^k y_p(x)$ is a solution of the homogeneous problem.

Reduction of Order

Homogeneous Case

Given $y_1(x)$ satisfies $L[y] = 0$, find second linearly independent solution as $v(x) = v(x)y_1(x)$, $z = v'$ satisfies a separable ODE.

Nonhomogeneous Case

Given $y_1(x)$ satisfies $L[y] = 0$, find solution of $L[y] = f$ as $v(x) = v(x)y_1(x)$, $z = v'$ satisfies a first order linear ODE.

Method of Variation of Parameters

$$y_p(x) = c_1(x)y_1(x) + c_2(x)y_2(x)$$
$$c_1'(x)y_1(x) + c_2'(x)y_2(x) = 0$$
$$c_1'(x)y_1'(x) + c_2'(x)y_2'(x) = \frac{f(x)}{a(x)}$$

Applications

Free Fall

$$x''(t) = -g$$
$$x'(t) = -gt + f(t)$$

Population Dynamics

$$P'(t) = kP(t)$$
$$P''(t) = kP'(t) - kP^2(t)$$

Newton's Law of Cooling

$$T'(t) = -k(T(t) - T_a)$$

Oscillations

$$mx''(t) + kx(t) = 0$$
$$mx''(t) + bx'(t) + kx(t) = 0$$
$$mx''(t) + bx'(t) + kx(t) = F(t)$$

Types of Damped Oscillation

Overdamped, $b^2 > 4mk$

Critically Damped, $b^2 = 4mk$

Underdamped, $b^2 < 4mk$

Numerical Methods

Euler's Method

$$y_0 = y(t_0)$$
$$y_n = y_{n-1} + \Delta x f(x_{n-1}, y_{n-1}), \quad n = 1, \dots, N$$

Series Solutions

Taylor Method

$$f(x) = \sum_{n=0}^{\infty} \frac{f^{(n)}(a)}{n!} (x-a)^n, \quad r_n = \frac{f^{(n+1)}(a)}{(n+1)!}$$

1. Differentiate DE repeatedly.
2. Apply initial conditions.
3. Find Taylor coefficients.
4. Insert coefficients into series form for $y(x)$.

Power Series Solution

1. Let $y(x) = \sum_{n=0}^{\infty} c_n (x-a)^n$.
2. Find $y'(x)$, $y''(x)$.
3. Insert expansions in DE.
4. Collect like terms using reindexing.
5. Find recurrence relation.
6. Solve for coefficients and insert in $y(x)$ series.

Ordinary and Singular Points

$$y'' + a(x)y' + b(x)y = 0, \quad a_0 \neq 0$$

Ordinary point: $a(x), b(x)$ real analytic in $|x - x_0| < R$

Regular singular point: $(x - x_0)a(x), (x - x_0)^2 b(x)$ have convergent Taylor series about $x = x_0$

Irregular singular point: Not ordinary or regular singular point.

Frobenius Method

1. Let $y(x) = \sum_{n=0}^{\infty} c_n (x - x_0)^{n+r}$.
2. Obtain indicial equation $r(r-1) + a_0 r + b_0$.
3. Find recurrence relation based on types of roots of indicial equation.
4. Solve for coefficients and insert in $y(x)$ series.

Laplace Transforms

Transform Pairs

x	$\frac{1}{s^2}$
x^n	$\frac{n!}{s^{n+1}}, \quad n \geq 0$
x^n	$\frac{n!}{s^{n+1}}, \quad n \geq 0$
$\sin \omega t$	$\frac{\omega}{s^2 + \omega^2}$
$\cos \omega t$	$\frac{s}{s^2 + \omega^2}$
$\sinh \omega t$	$\frac{\omega}{s^2 - \omega^2}$
$\cosh \omega t$	$\frac{s}{s^2 - \omega^2}$
$f(t - a)$	$\frac{e^{-as}}{s}, \quad a \geq 0$
$\delta(t - a)$	$e^{-as}, \quad a \geq 0, a > 0$

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