שיטת השוואת המקדמים - טבלה

(מציאת פתרון פרטי למשוואה ליניארית, לא הומוגנית, מסדר שני, עם מקדמים קבועים)

TABLE 4.1 UNDETERMINED COEFFICIENTS FOR L[y](x) = g(x)

Type	g(x)	$y_p(x)$
(I) $p_n(x)$	$= a_n x^n + \cdots + a_1 x + a_0$	$x^{s}P_{n}(x) = x^{s}\{A_{n}x^{n} + \cdots + A_{1}x + A_{0}\}^{\dagger}$
(II) $ae^{\alpha x}$		$x^s A e^{\alpha x}$
(III) a cos	$\beta x + b \sin \beta x$	$x^s \{ A \cos \beta x + B \sin \beta x \}$
(IV) $p_n(x)e$	αx	$x^{s}P_{n}(x)e^{\alpha x}$
	$\cos \beta x + q_m(x)\sin \beta x,$ $\operatorname{ere} q_m(x) = b_m x^m + \dots + b_1 x + b_0$	$\mathbf{x}^{s} \{P_{N}(x)\cos \beta x + Q_{N}(x)\sin \beta x\},$ where $Q_{N}(x) = B_{N}x^{N} + \cdots + B_{1}x + B_{0}$ and $N = \max(n, m)$
(VI) $ae^{\alpha x}$ c	$\cos \beta x + b e^{\alpha x} \sin \beta x$	$x^{s} \{ Ae^{\alpha x} \cos \beta x + Be^{\alpha x} \sin \beta x \}$
(VII) $p_n(x)\epsilon$	$e^{\alpha x}\cos\beta x + q_m(x)e^{\alpha x}\sin\beta x$	$\mathbf{x}^{s} e^{\alpha x} \{ P_{N}(x) \cos \beta x + Q_{N}(x) \sin \beta x \},$ where $N = \max(n, m)$

The nonnegative integer s is chosen to be the smallest integer so that no term in the particular solution $y_p(x)$ is a solution to the corresponding homogeneous equation L[y](x) = 0.

 $^{^{\}dagger}P_n(x)$ must include all its terms even if $p_n(x)$ has some terms that are zero.