19.(a) The homogeneous solution is $y_c(t) = c_1 \cos 2t + c_2 \sin 2t$. Since $\cos 2t$ and $\sin 2t$ are both solutions of the homogeneous equation, set

$$Y(t) = t(A_0 + A_1 t + A_2 t^2) \cos 2t + t(B_0 + B_1 t + B_2 t^2) \sin 2t.$$

(b) Substitution into the equation and comparing the coefficients results in

$$Y(t) = \left(\frac{13}{32}t - \frac{1}{12}t^3\right) \cos 2t + \frac{1}{16}(28t + 13t^2) \sin 2t.$$

20.(a) The homogeneous solution is $y_c(t) = c_1 e^{-t} + c_2 t e^{-2t}$. None of the functions on the right hand side are solutions of the homogenous equation. In order to include all possible combinations of the derivatives, consider

$$Y(t) = e^t(A_0 + A_1 t + A_2 t^2) \cos 2t + e^t(B_0 + B_1 t + B_2 t^2) \sin 2t +$$
$$+ e^{-t}(C_1 \cos t + C_2 \sin t) + D e^t.$$

(b) Substitution into the differential equation and comparing the coefficients results in

$$Y(t) = e^t(A_0 + A_1 t + A_2 t^2) \cos 2t + e^t(B_0 + B_1 t + B_2 t^2) \sin 2t$$
$$+ e^{-t}\left(-\frac{3}{2}\cos t + \frac{3}{2}\sin t\right) + 2e^t/3,$$

in which $A_0 = -4105/35152$, $A_1 = 73/676$, $A_2 = -5/52$, $B_0 = -1233/35152$, $B_1 = 10/169$, $B_2 = 1/52$.

21.(a) The homogeneous solution is $y_c(t) = c_1 e^{-t} \cos 2t + c_2 e^{-t} \sin 2t$. None of the terms on the right hand side are solutions of the homogenous equation. In order to include the appropriate combinations of derivatives, consider

$$Y(t) = e^{-t}(A_1 t + A_2 t^2) \cos 2t + e^{-t}(B_1 t + B_2 t^2) \sin 2t +$$
$$+ e^{-2t}(C_0 + C_1 t) \cos 2t + e^{-2t}(D_0 + D_1 t) \sin 2t.$$

(b) Substitution into the differential equation and comparing the coefficients results in

$$Y(t) = \frac{3}{16}t e^{-t} \cos 2t + \frac{3}{8}t^2 e^{-t} \sin 2t$$
$$- \frac{1}{25}e^{-2t}(7 + 10t) \cos 2t + \frac{1}{25}e^{-2t}(1 + 5t) \sin 2t.$$

23. The homogeneous solution is $y_c(t) = c_1 \cos \lambda t + c_2 \sin \lambda t$. Since the differential operator does not contain a first derivative (and $\lambda \neq m\pi$), we can set

$$Y(t) = \sum_{m=1}^{N} C_m \sin m\pi t.$$

Boyce Linear Analysis Solutions

D. Hausmann

Boyce Linear Analysis Solutions:

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Integer Programming and Related Areas A Classified Bibliography 1976–1978 D. Hausmann,2012-12-06   **Graduate School : Containing the Register for ... and the Announcements for ...** Vanderbilt University. Graduate School,1962

Elementary Differential Equations and Boundary Value Problems William E. Boyce,Richard C. DiPrima,1977 This revision of the market leading book maintains its classic strengths contemporary approach flexible chapter construction clear exposition and outstanding problems Like its predecessors this revision is written from the viewpoint of the applied mathematician focusing both on the theory and the practical applications of Differential Equations as they apply to engineering and the sciences Sound and Accurate Exposition of Theory special attention is made to methods of solution analysis and approximation Use of technology illustrations and problem sets help readers develop an intuitive understanding of the material Historical footnotes trace development of the discipline and identify outstanding individual contributions

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