

10.  $y_1'' = 2$ . We see that  $t^2(2) - 2(t^2) = 0$ ,  $y_2'' = 2t^{-2}$ , with  $t^2(y_2'') - 2(y_2) = 0$ . Let  $y_3 = c_1 t^2 + c_2 t^{-1}$ , then  $y_3'' = 2c_1 + 2c_2 t^{-3}$ . It is evident that  $y_3$  is also a solution.

13. No. Substituting  $y = \sin(t^2)$  into the differential equation,

$$-4t^2 \sin(t^2) + 2 \cos(t^2) + 2t \cos(t^2)p(t) + \sin(t^2)q(t) = 0.$$

At  $t = 0$ , this equation becomes  $2 = 0$  (if we suppose that  $p(t)$  and  $q(t)$  are continuous), which is impossible.

14.  $W(e^{2t}, g(t)) = e^{2t}g'(t) - 2e^{2t}g(t) = 3e^{4t}$ . Dividing both sides by  $e^{2t}$ , we find that  $g$  must satisfy the ODE  $g' - 2g = 3e^{2t}$ . Hence  $g(t) = 3te^{2t} + ce^{2t}$ .

15.  $W(f, g) = fg' - f'g = t \cos t - \sin t$ , and  $W(u, v) = -4fg' + 4f'g$ . Hence  $W(u, v) = -4t \cos t + 4 \sin t$ .

16. We compute

$$\begin{aligned} W(a_1 y_1 + a_2 y_2, b_1 y_1 + b_2 y_2) &= \begin{vmatrix} a_1 y_1 + a_2 y_2 & b_1 y_1 + b_2 y_2 \\ a_1 y_1' + a_2 y_2' & b_1 y_1' + b_2 y_2' \end{vmatrix} = \\ &= (a_1 y_1 + a_2 y_2)(b_1 y_1' + b_2 y_2') - (b_1 y_1 + b_2 y_2)(a_1 y_1' + a_2 y_2') = \\ &= a_1 b_2 (y_1 y_2' - y_1' y_2) - a_2 b_1 (y_1 y_2' - y_1' y_2) = (a_1 b_2 - a_2 b_1)W(y_1, y_2). \end{aligned}$$

This now readily shows that  $y_3$  and  $y_4$  form a fundamental set of solutions if and only if  $a_1 b_2 - a_2 b_1 \neq 0$ .

18. The general solution is  $y = c_1 e^{-3t} + c_2 e^{-t}$ .  $W(e^{-3t}, e^{-t}) = 2e^{-4t}$ , and hence the exponentials form a fundamental set of solutions. On the other hand, the fundamental solutions must also satisfy the conditions  $y_1(1) = 1$ ,  $y_1'(1) = 0$ ;  $y_2(1) = 0$ ,  $y_2'(1) = 1$ . For  $y_1$ , the initial conditions require  $c_1 + c_2 = e$ ,  $-3c_1 - c_2 = 0$ . The coefficients are  $c_1 = -e^3/2$ ,  $c_2 = 3e/2$ . For the solution  $y_2$ , the initial conditions require  $c_1 + c_2 = 0$ ,  $-3c_1 - c_2 = e$ . The coefficients are  $c_1 = -e^3/2$ ,  $c_2 = e/2$ . Hence the fundamental solutions are

$$y_1 = -\frac{1}{2}e^{-3(t-1)} + \frac{3}{2}e^{-(t-1)} \quad \text{and} \quad y_2 = -\frac{1}{2}e^{-3(t-1)} + \frac{1}{2}e^{-(t-1)}.$$

19. Yes.  $y_1'' = -4 \cos 2t$ ;  $y_2'' = -4 \sin 2t$ .  $W(\cos 2t, \sin 2t) = 2$ .

20. Clearly,  $y_1 = e^t$  is a solution.  $y_2'' = (1+t)e^t$ ,  $y_2' = (2+t)e^t$ . Substitution into the ODE results in  $(2+t)e^t - 2(1+t)e^t + t e^t = 0$ . Furthermore,  $W(e^t, te^t) = e^{2t}$ . Hence the solutions form a fundamental set of solutions.

24. Writing the equation in standard form, we find that  $P(t) = \sin t / \cos t$ . Hence the Wronskian is  $W(t) = ce^{-\int (\sin t / \cos t) dt} = ce^{2 \ln |\cos t|} = c \cos t$ , in which  $c$  is some constant.

# Boyce Linear Analysis Solutions

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*Stochastic Structural Dynamics 1* Y.K. Lin,I. Elishakoff,2012-12-06 This volume contains eighteen selected papers presented at the Second International Conference on Stochastic Structural Dynamics which are related to new theoretical developments in the field This and a companion volume related to new practical applications constitute the proceedings of the conference and reflect the state of the art of the rapidly developing subject The conference was held in Boca Raton Florida during May 9 11 1990 hosted by the Center for Applied Stochastics Research of Florida Atlantic University A total of 20 technical sessions were organized and attended by eighty participants from 12 countries Special emphases of the conference were placed on two areas applications to earthquake engineering and stochastic stability of nonlinear systems Two sessions were dedicated to the memory of late Professor Frank Kozin one of the

founders and most active contributors to the stochastic stability theory We are indebted to the National Center for Earthquake Engineering Research NCEER for financial support Most credit belongs to each of the authors whose contributions were the very basis for the undoubted success of the conference We are grateful to the reviewers who carefully refereed the contributions for these two volumes Our special thanks are due to Mrs Christine Mikulski who carried out all the necessary secretarial tasks associated with the conference with dedication Finance, Planning, Programming, Economic Analysis, and Land Development, 1991 National Research Council (U.S.). Transportation Research Board, 1991

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