1 — 10
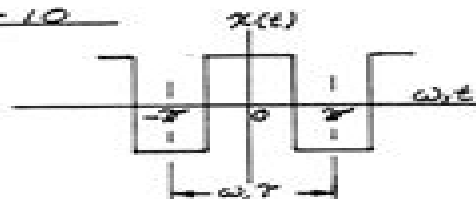

$x(t)$ is even function

$b_n = 0$

$a_n = \frac{2}{T}\int_{-T/2}^{T/2} x(t)\cos n\omega_1 t\, dt$

$T = \frac{2\pi}{\omega_1}$ $\omega_n = n\omega_1$
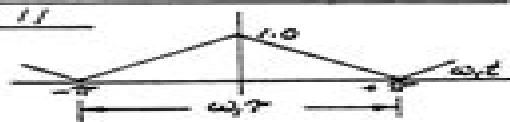
$a_n = \frac{1}{\pi}\int_{-\pi}^{-\pi/2}(-1)\cos n\omega_1 t\, d(\omega_1 t) + \frac{1}{\pi}\int(+1)\cos n\omega_1 t\, d(\omega_1 t) + \frac{1}{\pi}\int(-1)\cos n\omega_1 t\, d(\omega_1 t)$

$= \frac{1}{n\pi}\left\{\pm 4\right\}$ $+$ for $n = 1, 5, 9, \cdots$
                                         $-$ for $n = 3, 7, 11, \cdots$

$x(t) = \frac{4}{\pi}\left(\cos \omega_1 t - \frac{1}{3}\cos 3\omega_1 t + \frac{1}{5}\cos 5\omega_1 t \cdots\right)$

1 — 11

$x(t)$ is even function $b_n = 0$

$x(t) = \begin{cases} \frac{1}{\pi}(t+\pi) & -\pi \le t \le 0 \\ \frac{1}{\pi}(\pi-t) & 0 \le t \le \pi \end{cases}$

$\frac{1}{2}a_o = $ average value $= \frac{1}{2}$

$a_n = \frac{1}{\pi}\int_{-\pi}^{0}\frac{1}{\pi}(t+\pi)\cos n\omega_1 t\, d(\omega_1 t) + \frac{1}{\pi}\int_{0}^{\pi}\frac{1}{\pi}(\pi-t)\cos n\omega_1 t\, d(\omega_1 t)$

$= \frac{2}{\pi}\int_{0}^{\pi}\frac{1}{\pi}(\pi-t)\cos n\omega_1 t\, d(\omega_1 t)$ because of symmetry

$= \frac{2}{\pi}\left.\frac{\sin n\omega_1 t}{n}\right|_{0}^{\omega_1 t=\pi} - \frac{2}{\pi^2}\left(\frac{\cos n\omega_1 t}{n^2} + \omega_1 t\frac{\sin n\omega_1 t}{n}\right)\Big|_{0}^{\omega_1 t=\pi}$

$= \begin{cases} 0 & \text{for } n \text{ even} \\ \frac{4}{\pi^2 n^2} & \text{for } n \text{ odd} \end{cases}$

$x(t) = \frac{1}{2} + \frac{4}{\pi^2}\left(\cos \omega_1 t + \frac{1}{3^2}\cos 3\omega_1 t + \frac{1}{5^2}\cos 5\omega_1 t + \cdots\right)$

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Augustus Edward Hough Love

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solving vibration protection problems discusses the advantages and disadvantages of different methods and the fields of their effective applications Fundamental approaches of vibration protection which are considered in this book are the passive parametric and optimal active vibration protection The passive vibration protection is based on vibration isolation vibration damping and dynamic absorbers Parametric vibration protection theory is based on the Shchipanov Luzin invariance principle Optimal active vibration protection theory is based on the Pontryagin principle and the Krein moment method The book also contains special topics such as suppression of vibrations at the source of their occurrence and the harmful influence of vibrations on humans p Numerous examples which illustrate the theoretical ideas of each chapter are included This book is intended for graduate students and engineers It is assumed that a reader has working knowledge of theory of vibrations differential equations andcomplex analysis About the Authors Igor A Karnovsky Ph D Dr Sci is a specialist in structural analysis theory of vibration and optimal control of vibration He has 40 years of experience in research teaching and consulting in this field and is the author of more than 70 published scientific papers including two books in Structural Analysis published with Springer in 2010 2012 and three handbooks in Structural Dynamics published with McGraw Hill in 2001 2004 He also holds a number of vibration control related patents Evgeniy Lebed Ph D is a specialist in applied mathematics and engineering He has 10 years of experience in research teaching and consulting in this field The main sphere of his research interests are qualitative theory of differential equations integral transforms and frequency domain analysis with application to image and signal processing He is the author of 15 published scientific papers and a US patent 2015   Engineering Vibration Analysis with Application to Control Systems C. Beards,1995-06-17 Most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise This book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems combined with a description of how these techniques and results can be applied to the study of control system dynamics Numerous worked examples are included as well as problems with worked solutions and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion All engineers practising and student should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results This text provides an invaluable insight into both   **Solutions Manual to Accompany Mechanical Vibrations** Francis S. Tse,Ivan E. Morse,Rolland Theodore Hinkle,1978   **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1975

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