

## Atmospheric Oscillations

5.1. Show that the Fourier component  $F(x) = \text{Re}[C \exp(i\omega x)]$  can be written as  $F(x) = |C| \cos m(x + x_0)$ , where  $x_0 = \sin^{-1}(\text{Im}C / |C|)$  and  $C$  stands for the imaginary part of  $C$ .

Solutions  $\text{Re}[C \exp(i\omega x)] = C_r \cos \omega x + C_i \sin \omega x$ , where  $C = C_r + iC_i$ . Define  $C_r = |C| \cos m\omega x$ ,  $C_i = |C| \sin m\omega x$ . Thus,  $x_0 = \sin^{-1}(|C_i|/|C|)$ , and  $F(x) = |C| (\cos \omega x \cos m\omega x - \sin \omega x \sin m\omega x) = |C| \cos[m(x + x_0)]$ .

5.2. In the study of atmospheric wave motions, it is often necessary to consider the possibility of amplifying or decaying waves. In such a case we might assume that a solution has the form  $\psi = A \cos(\omega x - \nu t - \lambda_0) \exp(\alpha x)$ , where  $A$  is the initial amplitude,  $\alpha$  the amplification factor, and  $\lambda_0$  the initial phase. Show that this expression can be written more concisely as  $\psi = \text{Re}[S e^{i(\omega x - \nu t)}]$ , where both  $S$  and  $c$  are complex constants. Determine the real and imaginary parts of  $S$  and  $c$  in terms of  $A$ ,  $\alpha$ ,  $\lambda_0$ ,  $\nu$ , and  $\omega$ .

Solutions  $\psi = \text{Re}[S \exp[ik(x - \alpha t)]] = \text{Re}[S \exp[ik(x - c, r)] e^{i\omega x}]$ , but from Problem 7.1 we can write this as  $\psi = |S| \cos[k(x - c, r) - \lambda_0] e^{i\omega x} = A \cos[(\omega x - \nu t - \lambda_0)] e^{i\omega x}$ , where  $A = |S|$ ,  $\alpha = kc_r$ ,  $\nu = kc_r$ , and  $\lambda_0 = -\sin^{-1}(S/A|S|)$ . Thus,  $S_r = A \cos \lambda_0$ ,  $S_i = -A \sin \lambda_0$ .

5.3. Several of the wave types discussed in this chapter are governed by equations that are generalizations of the wave equation

$$\frac{\partial^2 \psi}{\partial t^2} = c^2 \frac{\partial^2 \psi}{\partial x^2}$$

This equation can be shown to have solutions corresponding to waves of arbitrary profile moving at the speed  $c$  in both the positive and negative  $x$  directions. We consider an arbitrary initial profile of the field  $\psi$ :  $\psi = f(x)$  at  $t = 0$ . If the profile is translated in the positive  $x$  direction at speed  $c$  without change of shape, then  $\psi = f(x')$ , where  $x'$  is a coordinate moving at speed  $c$  so that  $x = x' + ct$ . Thus, in terms of the fixed coordinate  $x$ , we can write  $\psi = f(x - ct)$ , corresponding to a profile that moves in the positive  $x$  direction at speed  $c$  without change of shape. Verify that  $\psi = f(x - ct)$  is a solution for any arbitrary continuous profile  $f(x - ct)$ .

Hint: Let  $x - ct = x'$  and differentiate  $f$  using the chain rule.

Solutions  $\psi = f(x')$ ,  $x' = x - ct$ ,  $\partial x'/\partial x = 1$ ,  $\partial x'/\partial t = -c$ . Thus, by the chain rule,  $\frac{\partial \psi}{\partial x} = \left(\frac{\partial \psi}{\partial x'}\right) \left(\frac{\partial x'}{\partial x}\right) = \frac{\partial \psi}{\partial x'}$ . Differentiating by  $x$  gives  $\frac{\partial^2 \psi}{\partial x^2} = \frac{\partial^2 \psi}{\partial x'^2}$ . Similarly,  $\frac{\partial \psi}{\partial t} = \left(\frac{\partial \psi}{\partial x'}\right) \left(\frac{\partial x'}{\partial t}\right) = -c \frac{\partial \psi}{\partial x'}$ , which, when differentiated by  $x$ , gives  $\frac{\partial^2 \psi}{\partial t^2} = c^2 \frac{\partial^2 \psi}{\partial x^2}$ . Substituting into the wave equation then shows that  $f(x')$  is indeed a solution.

5.4. Assuming that the pressure perturbation for a one-dimensional acoustic wave is given by (7.15), find the corresponding solutions of the zonal wind and density perturbations. Express the amplitude and phase for  $u'$  and  $\rho'$  in terms of the amplitude and phase of  $p'$ .

Solutions From the momentum equation:  $(\frac{\partial}{\partial t} + \frac{\partial}{\partial x}) u' = -\left(\frac{1}{\rho} \right) \frac{\partial p'}{\partial x} = -\left(\frac{1}{\rho} \right) A e^{i(\omega t - \alpha x)}$ . Substituting in the assumed solution  $u' = B e^{i(\omega t - \alpha x)}$  gives  $i\partial(x - \bar{x}) B = -i\partial(\omega/B) A$ , or  $B = A (\omega/c - \bar{x})^{-1}$ . But,  $(c - \bar{x})^2 = \nu^2 (R^2/B)$ . Thus,  $u' = p' (c - \bar{x}) (\nu R)^{-1}$ . Now linearizing (5.15) yields  $(\frac{\partial}{\partial t} + \frac{\partial}{\partial x}) \rho' = -\bar{x} \frac{\partial u'}{\partial x} = -\bar{x} \partial B B e^{i(\omega t - \alpha x)}$ . Letting  $\rho' = C e^{i(\omega t - \alpha x)}$  gives  $i\partial(x - \bar{x}) C = (\partial B/B) B$ . Thus,  $C = \bar{x} B (c - \bar{x})^{-1} = A (c - \bar{x})^{-2}$ . Hence,  $\rho' = p' (c - \bar{x})^{-2}$ .

# Atmospheric Science Solutions Manual

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