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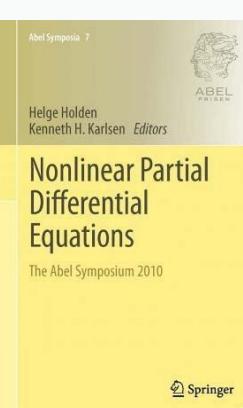
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2.5.5 (a) The eigenvalue problem is $d^2\varphi/d\theta^2 = -\lambda\varphi$ subject to $d\varphi/d\theta(0) = 0$ and $\varphi(\pi/2) = 0$. It can be shown that $\lambda > 0$ so that $\varphi = \cos\sqrt{\lambda}\,\theta$ where $\varphi(\pi/2) = 0$ implies that $\cos\sqrt{\lambda}\pi/2 = 0$ or $\sqrt{\lambda}\pi/2 = -\pi/2 + n\pi$, $n = 1, 2, 3, \ldots$. The eigenvalues are $\lambda = (2n-1)^2$. The radially dependent term satisfies (2.5.40), and hence the boundedness condition at $r = 0$ yields $G(r) = r^{2n-1}$. Superposition yields

$$u(r, \theta) = \sum_{n=1}^{\infty} A_n r^{2n-1}\cos(2n-1)\theta.$$

The nonhomogeneous boundary condition becomes

$$f(\theta) = \sum_{n=1}^{\infty} A_n \cos(2n-1)\theta \quad \text{or} \quad A_n = \frac{4}{\pi}\int_0^{\pi/2} f(\theta)\cos(2n-1)\theta \, d\theta.$$

2.5.5 (c) The boundary conditions of (2.5.37) must be replaced by $g(0) = 0$ and $\varphi(\pi/2) = 0$. Thus, $L = \pi/2$, so that $\lambda = (n\pi/L)^2 = (2n)^2$ and $\varphi = \sin\frac{n\pi\theta}{L} = \sin 2n\theta$. The radial part that remains bounded at $r = 0$ is $G = r^{\sqrt{\lambda}} = r^{2n}$. By superposition,

$$u(r, \theta) = \sum_{n=1}^{\infty} A_n r^{2n}\sin 2n\theta.$$

To apply the nonhomogeneous boundary condition, we differentiate with respect to r:

$$\frac{\partial u}{\partial r} = \sum_{n=1}^{\infty} A_n (2n) r^{2n-1}\sin 2n\theta.$$

The bc at $r = 1$, $f(\theta) = \sum_{n=1}^{\infty} 2nA_n\sin 2n\theta$, determines A_n, $2nA_n = \frac{4}{\pi}\int_0^{\pi/2} f(\theta)\sin 2n\theta \, d\theta$.

2.5.6 (a) The boundary conditions of (2.5.37) must be replaced by $g(0) = 0$ and $g(\pi) = 0$. Thus $L = \pi$, so that the eigenvalues are $\lambda = (n\pi/L)^2 = n^2$ and corresponding eigenfunctions $\varphi = \sin n\pi\theta/L = \sin n\theta$, $n = 1, 2, 3, \ldots$. The radial part which is bounded at $r = 0$ is $G = r^{\sqrt{\lambda}} = r^n$. Thus by superposition

$$u(r, \theta) = \sum_{n=1}^{\infty} A_n r^n\sin n\theta.$$

The bc at $r = a$, $g(\theta) = \sum_{n=1}^{\infty} A_n a^n\sin n\theta$, determines A_n, $A_n a^n = \frac{2}{\pi}\int_0^\pi g(\theta)\sin n\theta \, d\theta$.

2.5.7 (b) The boundary conditions of (2.5.37) must be replaced by $\varphi'(0) = 0$ and $\varphi'(\pi/2) = 0$. This will yield a cosine series with $L = \pi/2$, $\lambda = (n\pi/L)^2 = (3n)^2$ and $\varphi = \cos n\pi\theta/L = \cos 3n\theta$, $n = 0, 1, 2, \ldots$. The radial part is bounded at $r = 0$ is $G = r^{\sqrt{\lambda}} = r^{3n}$. Thus by superposition

$$u(r, \theta) = \sum_{n=0}^{\infty} A_n r^{3n}\cos 3n\theta.$$

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