

## DAFTAR PUSTAKA

1. Artono Arismunandar. Teknik Tegangan Tinggi, Jakarta : Pradnya Paramita, 1978.
2. Chipman A. Robert. Transmition Line. Mc Graw Hill, 1968.
3. Gubta JB. Electrical Power. Katson Publishing, 1984.
4. Hutauruk T.S, Ir. Transmisi Daya Listrik. Erlangga, 1985.
5. Rawa KB. Transmition and Distribution of Electrical Power. Mc Graw Hill, 1985.
6. Stevenson, Ir & D. Willian. Analisa Sistim Tenaga Listrik. Jakarta : Erlangga, 1994.
7. Theraja BL. Electrical Technologi. S, Chand & Co, 1976.
8. Uppal SL, Dr. Electrical Power. Khama Publisher, 1980.
9. Vadhera S. S. Power Systim Analisis and Stability. Khanna Publisher, 1981.
10. Woodruff L.F. Principles of Electric Power Transmition. New York : Jhon Willey and Son, Inc, 1978.

## LAMPIRAN

$$\begin{aligned}
 \frac{\cosh \theta - 1}{\sinh \theta} &= \frac{\frac{e^\theta + e^{-\theta} - 1}{2}}{\frac{e^\theta + e^{-\theta}}{2}} = \frac{e^\theta + e^{-\theta} - 2}{2} \cdot \frac{2}{e^\theta + e^{-\theta}} \\
 &= \frac{e^\theta + e^{-\theta} - 2}{e^\theta + e^{-\theta}} = \frac{e^\theta + e^{-\theta} - 2}{e^\theta + e^{-\theta}} \cdot \frac{e^{\theta/2} + e^{-\theta/2}}{e^{\theta/2} + e^{-\theta/2}} \\
 &= \frac{e^\theta + e^{-\theta} - 2}{e^{\theta/2} + e^{-\theta/2}} \cdot \frac{e^{\theta/2} + e^{-\theta/2}}{e^\theta + e^{-\theta}} \\
 &= \frac{e^\theta e^{\theta/2} - e^\theta e^{-\theta/2} + e^{-\theta} e^{\theta/2} - e^{-\theta} e^{-\theta/2} - 2e^{\theta/2} + 2e^{-\theta/2}}{e^{\theta/2} e^\theta - e^{\theta/2} e^{-\theta} - e^{-\theta/2} e^\theta + e^{-\theta/2} e^{-\theta}} \\
 &= \frac{-e^{\theta/2} + e^{-\theta/2}}{-e^{\theta/2} - e^{-\theta/2}} = \frac{e^{\theta/2} - e^{-\theta/2}}{e^{\theta/2} + e^{-\theta/2}} \\
 &= \frac{\sinh \theta/2}{\cosh \theta/2} = \tanh \theta/2
 \end{aligned}$$