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**Power analysis - Wikipedia**  
Power system Analysis-by John J Grainger, William D Stevenson, TMC Companies, 4th edition, 1994. Reference Books: 1. Power System Analysis and Design by B.R.Gupta, S. Chand & Co, 6 th Revised Edition, 2010. 2. Modern Power System Analysis by I.J.Nagrath and D.P.Kothari, Tata McGraw Hill, 3 rd Edition, 2008. 3.

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If r is very small compared to x, then we observe that g will be very small compared to b, and it is reasonable to approximate eqs. (3) as g 0 and x b 1 (4) Now, if g=0, then the real part of all of the Y-bus elements will also be zero, that is, g=0 G=0. Applying this conclusion to the power flow equations of eq. (1): |N | j k j k j N |

**The Power Flow Equations - Iowa State University**  
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Appendix B Calculation of Electrical Parameters of Power Grid Units B.1 Parameters of Overhead Lines B.1.1 Parameters of Overhead Transmission Lines The equivalent circuit of an overhead transmission line is shown in Figure B.1. The parameters of the line shown in Figure B.1 are calculated as follows: The resistance R is R= r 0 n l= p nS l 08 ...