



# Extra High Voltage AC Transmission Engineering

By R D Begamudre

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## Extra High Voltage AC Transmission Engineering By R D Begamudre

Presented in a lucid style with easy-to-understand methodology; Review Questions, Problems with Answers are given; The material has been tried out for advanced undergraduate and postgraduate courses at reputed institutions.

The book covers all topics that are considered essential for understanding the operation and design of EHV, AC overhead lines and underground cables. Theoretical analysis of all problems combined with practical application are presented in detail. EHV laboratory equipment and testing are fully covered together with application of digital recorders, fibre optics, etc. for impulse measurements. Every chapter contains many worked examples in order to illustrate and reinforce the theory. All examples are taken from practical situations as far as possible.

Table of Contents: Introduction to EHV AC Transmission/ Transmission Line Trends and Preliminaries/ Calculation of Line and Ground Parameters/ Voltage Gradients of Conductors/ Corona Effects I: Power Loss and Audible Noise/ Corona Effects II: Radio Interference/ Electrostatic and Magnetic Fields of EHV Lines/ theory of Travelling Waves and Standing Waves/ Lightning and Lightning Protection/ Overvoltages in EHV Systems Caused by Switching Operations/ Insulation Characteristics of Long Air Gaps/ Power-Frequency Voltage Control and Overvoltages/ EHV Testing and Laboratory Equipment/ Design of EHV Lines Based upon Steady-State Limits and transient Overvoltages/ Extra High Voltage Cable Transmission.

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### **Editorial Review**

#### **About the Author**

Rakosh Das Begamudre has been actively engaged in teaching, research, development and consulting in electrical machinery, control of machines and extra high voltage power transmission for nearly five decades at universities in India, USA and Canada. He holds the BSc (Engineering) Degree from the Banaras Hindu University, a Masters Degree from the IIS, Bangalore and a PhD from the Lehigh University in Bethlehem, Pennsylvania, USA. His training in large rotating machinery and transformer engineering was at the factories of Hitachi in Japan. He has held faculty positions at various reputed universities in India, Lehigh and the Royal Military College of Canada.

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