

The book begins with background information on the origin of cable insulations, and then describes the different polymeric materials that make up the structure of both MV and high voltage (HV) cables. This is followed by a chapter on cable manufacturing methods, which outlines the importance of using sound manufacturing processes and high-quality cable materials. There is also a chapter on long-term cable performance, which includes a discussion of test methods used around the globe to assess cable behavior in service, as well as a discussion about HV cable design considerations. The book concludes with chapters on known, global cable use practices and on future trends in the industry.

Achieving a long cable life using XLPE compounds is not difficult. However, it does require attention to details that may, on the surface, appear to bring little immediate benefit. The purpose of this book is to outline some of the most common practices that can help industry and electric utilities obtain a cost-effective XLPE-insulated cable with a long, reliable service life.

The editors

