



ARC Flash Hazard Analysis and Mitigation

By J. C. Das

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Up-to-date analysis methodologies and practical mitigation for a major electrical safety concern

Arc Flash Hazard Analysis and Mitigation is the first book to focus specifically on arc flash hazards and provide the latest methodologies for its analysis as well as practical mitigation techniques.

Consisting of sixteen chapters, this fully up-to-date handbook covers all aspects of arc flash hazard calculations and mitigation. It addresses the calculations of short circuits, protective relaying, and varied electrical systems configurations in electrical power systems. It also examines protection systems, including differential relays, arc flash sensing relays, protective relaying coordination, current transformer operation and saturation, and applications to major electrical equipment from the arc flash point of view. Current technologies and strategies for arc flash mitigation are explored. Using the methodology, analysis, and preventive measures discussed in the book, the arc flash hazard incident energy can be reduced to 8 cal/cm² or less for the new and existing electrical distribution systems.

This powerful resource:

- Features the most up-to-date arc flash analysis methodologies
- Presents arc flash hazard calculations in dc systems
- Supplies practical examples and case studies
- Provides end-of-chapter reviews and questions
- Includes a Foreword written by Lanny Floyd, a world-renowned leader in electrical safety who is DuPont's Principal Consultant on Electrical Safety and Technology

Arc Flash Hazard Analysis and Mitigation is a must-have guide for electrical engineers engaged in design, operation, and maintenance, consulting engineers, facility managers, and safety professionals.

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Editorial Review

Review

"J.C. Das has researched this body of knowledge and brought together innovative ideas and practical concepts with abundant references and real world case studies in arc flash analysis and mitigation. For the first time, design engineers, facility managers, safety professionals and operating and maintenance personnel have a common comprehensive reference for prevention methods."

From Foreword to the Book by Lenny Floyd, nationally and internationally recognized safety expert.

"If you need to perform arc flash hazard calculations, then this book will not only give you the equations and background necessary to obtain the correct classification, but it will also provide an understanding of how these equations were derived and their limitations." (*IEEE Electrical Insulation Magazine*, 1 March 2013)

From the Back Cover

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About the Author

J. C. Das is a Staff Consultant on Electrical Power Systems with AMEC Inc., in Tucker, Georgia. He is Life

Fellow of IEEE (UK), Fellow of IET (India), and has authored approximately sixty technical papers and published 190 study reports of real-world power systems. He is the author of two other books, *Power System Analysis: Short-Circuit Load Flow and Harmonics, Second Edition*, and *Transients in Electrical Systems: Analysis, Recognition, and Mitigation*. He is a registered P.E. in the states of Georgia and Oklahoma, C.Eng. in UK, and Eur Ing in Europe. J. C. Das is also a member of CIGRE, Federation of European Engineers, and other technical associations and organizations.

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