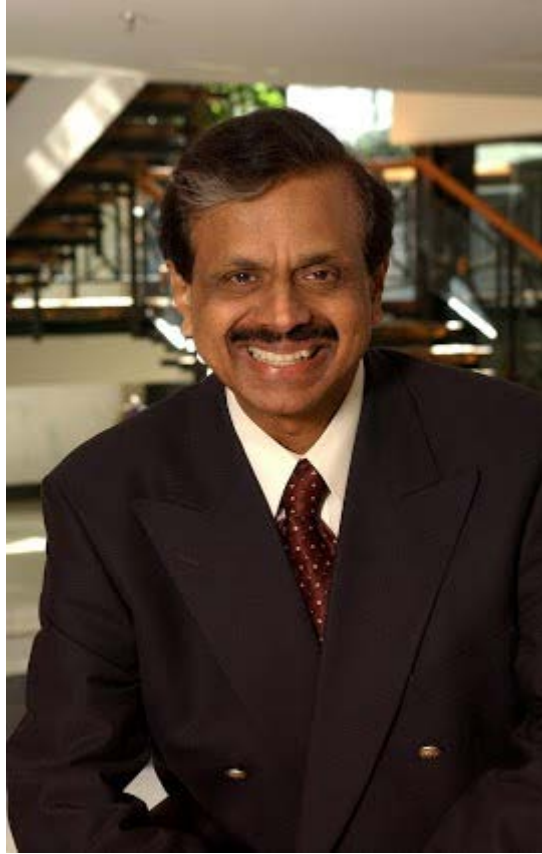


Dr. Prabha Shankar Kundur

1939 - 2018



Ad Memoriam

Short Biography (1)

- Born in Bangalore, India
- BE, Mysore University (1959)
- ME, Indian Institute for Science (1961)
- MASc, University of Toronto (1965)
- PhD, University of Toronto (1967)
- Various senior level positions at Ontario Hydro, Toronto (1969 – 1993)
- President and CEO of Powertech Labs Inc., Vancouver (1993 – 2006)
- President of Kundur Power System Solutions Inc. (- 2018)

Short Biography (2)

- Adjunct Professor at University of Toronto (1979 – 2017), University of British Columbia (1994 – 2006), University of Manitoba (2006 – 2017), Western University (1991 – 1999)
- Doctor Honoris Causa, University Politechnica of Bucharest (2003)
- Doctor of Engineering Honoris Causa, University of Waterloo (2004)
- University of Toronto Engineering Alumni Hall of Distinction Award (2014)
- IEEE Fellow (1985)
- IEEE Nikola Tesla Award (1997)
- IEEE PES Charles Concordia Power System Engineering Award (2005)
- IEEE Medal in Power Engineering (2010)
- CIGRE Technical Committee Award (1999)
- CIGRE Medal (2014)
- Fellow of the Canadian Academy of Engineering (2003)
- Foreign Associate of the US National Academy of Engineering (2011)
- ...

Dr. Kunder was an outstanding

- Engineer
- Scholar
- Leader
- Educator
- Mentor

Engineering Achievements

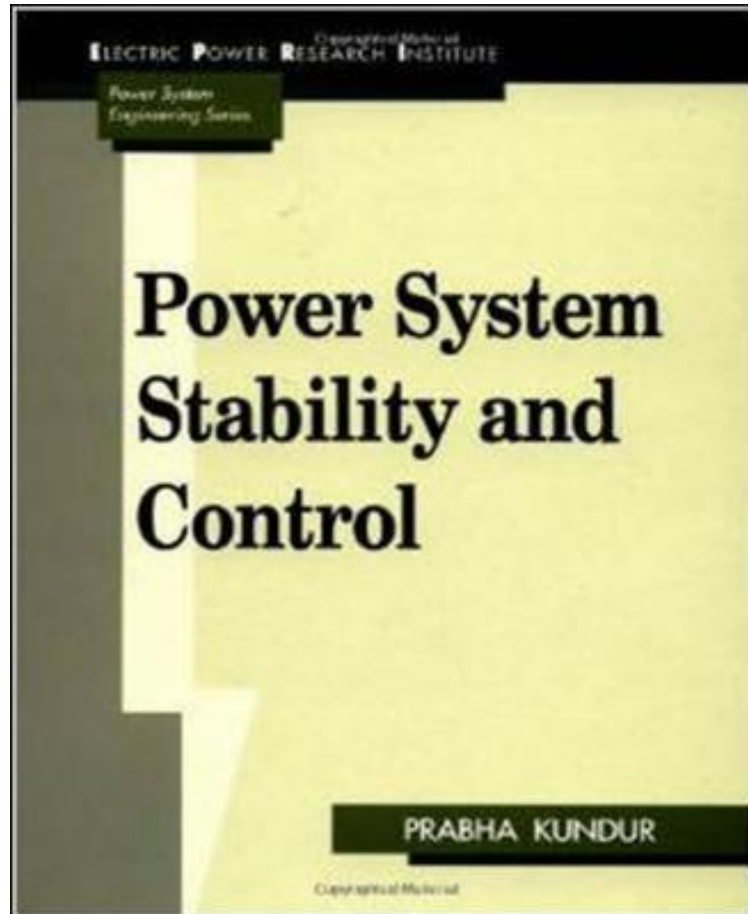
Ontario Hydro:

Head of Systems Controls & Transient Section and Manager of Analytical Methods & Specialized Studies Department in the Power System Planning Division

Powertech Labs Inc:

Responsible for leading the development, application and commercialization of a wide range of new technologies and software for the energy sector

Dr. Kundur as Scholar



- Format Hardback | 1200 pages
- Dimensions 188 x 241 x 64mm | 3 561g
- First edition **1993**
- 22 426 citations (Google scholar, 2019.03.03)

Leadership

- Officer of the IEEE PES Power System Dynamic Performance Committee (1997 – 2005)
- IEEE PES Executive Committee and PES Vice-President for Education (2004 – 2010)
- Chair of numerous IEEE PES & Cigré Committees, Working Groups, ...

Definition and Classification of Power System Stability

IEEE/CIGRE Joint Task Force on Stability Terms and Definitions

Prabha Kundur (Canada, Convener), John Paserba (USA, Secretary), Venkat Ajjarapu (USA), Göran Andersson (Switzerland), Anjan Bose (USA), Claudio Canizares (Canada), Nikos Hatziargyriou (Greece), David Hill (Australia), Alex Stankovic (USA), Carson Taylor (USA), Thierry Van Cutsem (Belgium), and Vijay Vittal (USA)

Abstract—The problem of defining and classifying power system stability has been addressed by several previous CIGRE and IEEE Task Force reports. These earlier efforts, however, do not completely reflect current industry needs, experiences and understanding. In particular, the definitions are not precise and the classifications do not encompass all practical instability scenarios.

on the subject by CIGRE and IEEE Task Forces [4]–[7]. These, however, do not completely reflect current industry needs, experiences, and understanding. In particular, definitions are not precise and the classifications do not encompass all practical instability scenarios.

This report is the result of long deliberations of the Task Force

Causes of the 2003 Major Grid Blackouts in North America and Europe, and Recommended Means to Improve System Dynamic Performance

G. Andersson, P. Donalek, R. Farmer, N. Hatziargyriou, I. Kamwa, P. Kundur, N. Martins, J. Paserba, P. Pourbeik, J. Sanchez-Gasca, R. Schulz, A. Stankovic, C. Taylor, and V. Vittal

Abstract—On August 14, 2003, a cascading outage of transmission and generation facilities in the North American Eastern Interconnection resulted in a blackout of most of New York state as well as parts of Pennsylvania, Ohio, Michigan, and Ontario, Canada. On September 23, 2003, nearly four million customers lost power in eastern Denmark and southern Sweden following a cascading outage that struck Scandinavia. Days later, a cascading outage between Italy and the rest of central Europe left most of Italy in darkness on September 28. These major blackouts are among the worst

reduce the risk of major system blackouts in the future. Finally, Section V presents overall conclusions and recommendations.

II. WHAT CAUSED THE BLACKOUTS?

This section provides a summary of the cause of each of the three recent blackouts, with a primary emphasis on the North American blackout.

Educator

Dr. Kundur held courses in power system analysis, stability and control all over the world for thousands of engineers until 2018

In Sweden together with ABB, Solvina, ...

Also, during his consulting work he educated and trained engineers



ETH Zurich 2016

Mentor

- Dr. Kundur was very eager for engaging young people, both from academia and industry, in IEEE work
- Dr. Kundur had always time to give advice concerning technical and professional matters
- To inspire work in power system stability the IEEE PES Prabha S. Kundur Power System Dynamics and Control Award was established in his honour in 2014

Dr. Kundur was a caring family father

- Married to Gheeta for 55 years
- His daughter Deepa Kundur followed in his footsteps: Professor in electrical engineering at University of Toronto
- Two grandsons: Linus and Ptolemy

Some personal memories

IEEE PES General Meeting 2016, Boston

