



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

In recognition of professional standing
the Officers and Board of Directors of
the Institute certify that

Dr. Diethard Hansen

has been elected to the grade of

Senior Member



May 12, 2001

A handwritten signature in black ink, appearing to read "Joel B. Snyder".

Joel B. Snyder
President

A handwritten signature in black ink, appearing to read "Hugo M. Fernandez Versteegen".

Hugo M. Fernandez Versteegen
Secretary