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and Reports

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Transport during  
1976.

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comprehensive

case study of

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electrification in the

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quality remain at stake together with transportation efficiency. Electric traction on the Pennsylvania Railroad was a technological success handicapped by an economic factor: the onetime relatively low cost

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of petroleum, which  
gave diesel

locomotives and  
highway vehicles a  
temporary  
advantage. Today  
the growing cost  
advantage of electri  
city--generated  
with coal; atomic  
energy; water,  
wind, and solar  
power--prefigures a

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revival of electric  
railroad traction.

Drawing upon  
previously  
untapped records  
of the PRR and its  
suppliers, notably  
General Electric, the  
author traces stages  
in cooperative risk  
management. First  
came challenges of  
limited scope which

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steam locomotives  
were unable to  
meet: the New York  
City tunnel  
extension of 1910  
and the  
Philadelphia  
suburban  
modernization  
begun in 1913. Next  
came a decade of  
mainline  
electrification,



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1928-38: first New York to Washington and then passenger and freight extensions to Harrisburg. These projects were preceded by large-scale research and experimentation, followed by constant improvement in

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equipment and operations. Electric traction is depicted as a program involving not only the railroad but also its consultants, equipment and energy suppliers, and (to a lesser degree) governmental bodies. Locomotive

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and power transmission design is described in detail--with copious illustrations--as are the creative achievements of managers, engineers, and workers. And the presentation will be clear to readers without specialized

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technical or  
business

backgrounds.

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The Electrical

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Electrical Traction

**Electrical drives lie  
at the heart of**

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**most industrial processes and make a major contribution to the comfort and high quality products we all take for granted. They provide the controller power needed at all levels, from megawatts in cement production**

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**to milliwatts in  
wrist watches.**

**Other examples  
are legion, from  
the domestic  
kitchen to public  
utilities. The  
modern electrical  
drive is a complex  
item, comprising a  
controller, a static  
converter and an  
electrical motor.  
Some can be**

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**programmed by  
the user. Some can  
communicate with  
other drives.**

**Semiconductor  
switches have  
improved,  
intelligent power  
modules have been  
introduced, all of  
which means that  
control techniques  
can be used now  
that were**

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**unimaginable a decade ago. Nor has the motor side stood still: high-energy permanent magnets, semiconductor switched reluctance motors, silicon micromotor technology, and soft magnetic materials produced by powder**



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**technology are all  
revolutionising the  
industry. But the  
electric drive is an  
enabling  
technology, so the  
revolution is  
rippling  
throughout the  
whole of industry.  
Review of Reviews  
Electric Traction  
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Illustrated**

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