R A Smith, Railway Related Publications

The following listings, in order of publication date, have been separated into technical papers, environmental issues, general railway topics and historical works.

1. Technical publications

Wrought Iron Railway Axles and the Origins of the Metal Fatigue Problem
Smith, R A

The Versailles Railway Accident of 1842 and the Beginnings of The Metal Fatigue Problem
Smith, R A

Developing Crashworthiness for Railway Vehicles
Smith, R A

Engineering Integrity In Rail Transport Systems: Rolling Stock Leasing-The Technical Challenges
Eds. Edwards, J H., Jablonski, A & Smith, R A

Effects of Combined Eccentric Vertical & Horizontal Loading on Bending of the web of the rail Section
Smith, R A

Crashworthiness of Trains: Principles and Progress
Smith, R A

Railway Accidents: Risk, Causes, Reduction and Mitigation
Smith, R A

Crashworthiness Moves from Art to Science
Smith, R A
Crush-Zone Development
Smith, R A
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Strategic Options In Railway Maintenance Management: Maintenance
Philosophies and New Technologies
Simms, J M & Smith, R A
In Condition Monitoring and Diagnostic Engineering Management, Raj B K N

Opportunities from Innovation
Smith, R A

Design For Crashworthy Trains
Smith, R A
Experimental Mechanics: Advances in Design, Testing & Analysis, I M Allison,

Energy Absorbing Sandwich Panels for Crashworthy Composite Structures
Carruthers, J J., Robinson, A M & Smith, R A
Experimental Mechanics: Advances in Design, Testing & Analysis, I M Allison,

The Tenth Vernon Clancy Memorial Lecture: Fatigue In Transport: Problems,
Solutions & Future Threats
Smith, R A
Transactions of Institution of Chemical Engineers, Part B, Process Safety &

Theory Of Tilting Train Behaviour
Harris, NR, Schmit,F & Smith, R A
Proceedings Institution Mechanical Engineers:Part F: Journal of Rail and

Report On Aspects of Railway Safety In The UK and Methods of Improvement
Smith, R A
Evidence for the Director of Public Prosecution, arising from the Southall
Railway Accident, 1999.

Fatigue of Railway Axles: A Classic Problem Revisited
Smith, R A
In, Fracture Mechanics: Applications & Challenges, Eds. M Fuentes, M Elices,
Railway Safety In Japan: Value Before Cost
Smith, R A

Transport Safety: The Role of Machines & Men
Smith, R A

Fifty Years of Railway Engineering
Smith, R A

Monitoring Fatigue in Railway Axles
Smith, R A & Hillmansen, S

Rolling Contact Fatigue: What remains to be done?
Smith, R A
Proceedings World Congress on Railway Research, (CD Rom), Köln, 25-29, 2001
Published in Chinese, China Railway Science, Vol. 23, No.5, pp. 6-10, 2002.

Editor of the Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit,
From Vol. 211, No. F1, 1997 to date.

Editorial: Special Issue On Safety
Smith, R A

Special Issue On Safety
Smith, R A (Ed.)

An Introduction To China's Rail Transport Part 1: History, Present and Future of China's Railways
Xue, X, F Schmid, & Smith, R A
Xue, X, Schmid,F & Smith, R A

Putting an end to rolling contact fatigue
Smith, R A

12th International Railway Safety Conference, Tokyo 2002,
Smith, R A

Fatigue and the railways: Why there are still unresolved problems
Smith, R A

Intelligent measurement of the in-service rail vehicle axle environment
Hillmansen, S & Smith, R A

The Wheel-Rail Interface: Some Recent Accidents
Smith, R A

Railways: Structural Integrity, Past, Present and Future
Smith, R A

Railway Speed-up: A Review of its History, Technical Developments and Future Prospects,
Smith, R A
2. Environmental issues

Environmentally Driven Challenges
Ford, H, Smith, R A & Harris, N R
In Proc Royal Society Conference, Eds R A Smith, N R Harris & S J Hill,

The Contribution of Railways to Planning for the Environment
Harris, N R & Smith, R A
IMechE Conference Transactions 1995-1, Implementing Rail Projects,

Smith, R A

Transport and Energy; Environmental Issues
Smith, R A & Harris, N R

Economic Activity Viewed as a Physical Process
Smith, R A

Avenues for Environmental Improvement for a 21st Century Railway
Harris, N R & Smith, R A

Global Environmental Challenges and Railway Transport
Smith, R A

Physical Constraints to Expanding Economic Activity
Smith, R A

An Engineering Appraisal of The Policy & Innovation Unit's Energy Review
Smith, R A et al.

Railways: how they may contribute to a sustainable future
Smith, R A

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3. General railway publications

Running a Railway Japanese Style-An Outsiders View
Smith, R A

The Advanced Railway Research Centre
Smith, R A & Jablonski, A P

The Advanced Railway Research Centre
Smith, R A & Jablonski, A

The Advanced Railway Research Center at the University of Sheffield
Smith, R A

On the Skinkansen: A View from the Cab
Smith, R A

Research and Development of High Speed Railways
Smith, R A (Moderator)

The Future of Railway Research in Britain Following Privatisation - A View from the Research and Technical Committee of British Rail
Smith, R A (Ed.)

The Advanced Railway Research Centre at the University of Sheffield
Smith, R A

Some Effects of Privatisation of British Railways on Liability Issues
Smith, R A

Editorial: Railways: Rebirth & Regeneration
Smith, R A

The Advanced Railway Research Centre: Growth and Progress
Smith, R A

Growth and Progress of the Advanced Railway Research Centre
Smith, R A

The International High-Speed Railway Conference 1997
Smith, R A

JNR & BR: Comparing The Experiences of Privatizing the Railways, Published by The Daiwa Anglo-Japanese Foundation
Smith, R A, Gardiner, A & Clough, R

Trams Return to Manchester and Sheffield
Smith, R A

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Sir Peter Parker: An Appreciation
Smith, R A
Bullet-In, J Japanese Railway Society, No. 43, pp. 7-8, 2002.

A Note From Our President
Smith, R A

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UK Outpaced by Global Express
Smith, R A

How Good Are Our Railways?
Smith, R A

The State of Our Railways
Smith, R A

Railway Safety in Japan
Smith, R A et al.

My Road to the National Railway Museum and Shinkansen 22-141
Smith, R A
Railways: The Passenger Interface
Smith, R A et al

High-speed Railways for the UK
Smith, R A

Third Sector Railways: The Japanese Model
Smith, R A

Electric Shock
Smith, R A

4. Historical railway topics

Railways of South Georgia
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Smith, R A

The Usui Toge Railway of the Shin-Etsu Line, 1893-1997
Smith, R A

The Origins of the Usui Toge Rack Railway in Japan, 1885-1894
Smith, R A

The First Railway In Japan: British Connections, Edmund Morel and a Romantic Story
Smith, R A

Smith, R A

The Japanese Shinkansen: Catalyst for the renaissance of rail
Smith, R A
The Koiwai Farm and its Railway Antecedents
Smith, R A

Foreword: To Beautiful Railway Bridge on the Silvery Tay, Peter R Lewis,
Tempus,