

## The Motorway Achievement

FRONTIERS OF KNOWLEDGE AND PRACTICE

Editors  
Professor Ron Bridle  
John Porter



# The Motorway Achievement

FRONTIERS OF KNOWLEDGE AND PRACTICE

Edited by Professor Ron Bridle and John Porter

The creation of the UK motorway network in the second half of the 20th century facilitated a dramatic improvement in the mobility of people and goods and contributed greatly to the prosperity we enjoy today. *Frontiers of knowledge and practice*, has been produced for the Motorway Archive Trust by a team under the overall direction of Professor Ron Bridle, former Chief Highway Engineer at the Department for Transport.

This authoritative volume comprises eight chapters, each of which was compiled by a leading contributor to the motorway programme. It opens with an overview of the role of the Department for Transport in directing the motorway programme. Following on from this, chapter 2 describes the crucial role of computers in facilitating the motorway programme. In chapter 3, analytical procedures used in the production of the overall alignment of new motorways to minimise construction cost and satisfy the geometric standards needed to provide a safe road system are examined. Earthworks and drainage, pavements and bridges, are discussed in chapters 4, 5 and 6, and in chapter 7 the views of contractors on construction of the motorways are presented. The final chapter of this informative book provides a review of traffic control and communication on the motorway system and concludes with a brief look to the future of motorways.

Taken together the chapters provide a set of contrasting first hand accounts of the creation of the motorway system, the problems encountered, the solutions adopted and the lessons learned for future motorway development.

*Frontiers of knowledge and practice*, is one of three volumes that cover different aspects of the motorway achievement. Forthcoming titles in this series will be

- *Visualisation of the British Motorway System: Policy and administration*
- *Motorways in the Regions*

September 2002 Hardbound 592pp 246x189mm 0 7277 3197 1 £85.00

[www.thomastelford.com](http://www.thomastelford.com)



# BIOGRAPHICAL DICTIONARY OF CIVIL ENGINEERS IN GREAT BRITAIN AND IRELAND 1500 – 1830

Edited by Professor Sir Alec Skempton, M M Chrimes, Dr R C Cox, P S M Cross-Rudkin, Dr R W Rennison and Ted Ruddock MBE

Intended as a valuable biographical reference work on the lives, works and careers of individuals engaged in the practice of civil engineering, this volume looks specifically at those whose careers began before 1830.

With a masterly introductory overview by the late Sir Alec Skempton, specialist authors, many of whom have spent a lifetime researching the history of civil engineering, describe the background training and achievements of engineers over 350 years. This book will be of great value to historians, and engineers and architects involved in restoration work, for whom an authoritative source of information on the engineers who designed public works over 300 years will be available for the first time.

March 2002 Hardbound 944pp 234x156mm 0 7277 2939 X £95.00

## HOW TO ORDER

### By Post

Complete and return the order form to:  
The Customer Services Department,  
Thomas Telford Ltd, Units I/K,  
Paddock Wood Distribution Centre,  
Paddock Wood, Tonbridge, Kent TN12 6UU

### By Facsimile

Fax our Customer Services Department direct on  
+44 (0)20 7665 2245.

### By Telephone

Call our Customer Services Department direct on +44 (0)20 7665 2464.

### By Email

Email orders to: [orders@thomastelford.com](mailto:orders@thomastelford.com)

### Via the Internet

Book orders can be placed via the Thomas Telford  
web site at [www.thomastelford.com](http://www.thomastelford.com)

### Via the Thomas Telford Bookshop

Personal callers are invited to inspect and order any of our publications at the  
Thomas Telford Bookshop which is situated in the foyer of the Institution of Civil  
Engineers, One Great George Street, Westminster, London SW1P 3AA.

## ORDER FORM

Please send me \_\_\_\_\_ copy/copies of  
*The Motorway Achievement: Frontiers of knowledge and practice*  
at £85.00 per copy ISBN 0 7277 3197 1

Please send me \_\_\_\_\_ copy/copies of  
*Biographical Dictionary of Civil Engineers in Great Britain and Ireland*  
at £95.00 per copy ISBN 0 7277 2939 X

### Postage & Packing Charges

For UK orders please add 10% to the value of the order for p&p up to a maximum charge of £8. For overseas  
orders please add 20% to the value of the order for p&p up to a maximum charge of £50.

Please invoice my company for £ \_\_\_\_\_

Purchase invoice number \_\_\_\_\_

[Invoices will only be sent on orders for over £30.00 from UK companies and overseas  
companies with established accounts. Orders for under this amount will be sent a proforma  
invoice requesting prepayment. All orders must be accompanied by an official order/number.]

I enclose a cheque for £ \_\_\_\_\_

(Please make cheques payable to Thomas Telford Ltd.)

Please charge my Visa/Mastercard for £ \_\_\_\_\_

Card No \_\_\_\_\_

Expiry date \_\_\_\_\_

(Please provide a credit card billing address, if different to the one opposite.)

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Signature \_\_\_\_\_

186/ 1 2 3 4

The Institution of Civil Engineers and Thomas Telford Ltd. may maintain the data given above for the targeting of services we  
provide in the engineering field. If you do not wish to receive information of this type, please write to: The Data Protection Officer,  
The Institution of Civil Engineers, One Great George Street, London SW1P 3AA, or email [dataprotection@ice.org.uk](mailto:dataprotection@ice.org.uk).

