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The Sensors Series includes books on all aspects of the sensors, transducers, sensing systems and applications at graduate and professional level and are suitable for scientists, engineers and technologists in both academic

Future sensor technology will turn today's laboratory tool into tomorrow's consumer electronics. From microprocessor-based engine management systems to electronically controlled anti-lock braking and traction control, advances in sensor technology will guarantee increased vehicle sophistication and automation. *Automotive Sensors* reviews the current instrumentation, charts the development of car-based sensors and indicates possible courses for future development. Coverage includes:

- sensors already in volume application
- sensors currently under development
- devices, including torque transducers, which are currently restricted to use in development laboratories.

In well-thought-out sections, the reader learns the history of the use of sensors from the early days of motoring and how sensors are currently applied in a wide range of automotive control systems. This information is then expanded in further chapters describing in detail the construction, operation characteristics and method of use of sensors for each of the major parameters of interest to automotive control system designers. Closing chapters describe the current status of smart sensors, the sophisticated range of sensors required to enable intelligent vehicles to communicate and react to external events on the road, and future developments in intelligent sensors and control systems which could result in significant new ways of using the technology.

This is a valuable reference for researchers in automotive R&D, and required reading for electrical and mechanical engineers and sensor designers in the automotive industry. The technical level is pitched at those requiring an introduction to the subject, design theory and sensor physics are covered in depth and the breadth of coverage extends from instrumentation to those sensors which will eventually achieve high-volume manufacturing status. The text is comprehensively illustrated and well-referenced. The authors' lively style, and careful thought to relevant theory and historical detail, will ensure that *Automotive Sensors* remains an essential reference tool for many years to come.

MIKE WESTBROOK was Manager of Technical Research with Ford Motor Co until his recent retirement. He is now a consultant and retains an active interest in the development of automotive sensors both as a visiting Professor at Southampton University and as Chairman of the Institute of Transducer Technology there.

JOHN TURNER is Ford Professor of Automotive Electronics at Southampton University and Research Director of the Institute. From his early career in avionics to his current position, he has carried out pioneering research in this field, and written several research papers and textbooks introducing the student to engineering instrumentation.

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AUTOMOTIVE SENSORS

MIKE WESTBROOK and JOHN TURNER

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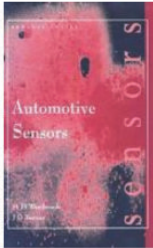
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
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