



# Workshop Processes, Practices and Materials, 5th ed

By Bruce J. Black

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*Workshop Processes, Practices and Materials* is an ideal introduction for entry level engineers and workshop technicians, as well as engineering university students with little or no practical experience. With detailed illustrations throughout and simple, clear language, this is a practical introduction to what can be a very complex subject. It has been significantly updated and revised to include new material on current Health and Safety legislation, gauging and digital measuring instruments, as well as modern measuring techniques such as laser scan micrometer, co-ordinate and visual measuring systems. A new chapter on an introduction to CNC milling and turning has been added. This book covers all standard workshop topics, including safe practices, measuring equipment, hand and machine tools, metal and plastics materials, joining methods including welding, presswork, primary forming, casting and moving loads, making it an indispensable handbook for use both in class and the workshop. Its broad coverage makes it a useful reference book for many different courses worldwide.

- Health and Safety chapter covers current best practice and has been checked by a certified health and safety examiner.
- Addition of modern measuring techniques using laser scan micrometer, co-ordinate and visual measuring systems.
- Addition of an introduction to CNC milling and turning.

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#### About the Author

**Bruce J. Black** has over 40 years' experience as a production engineer in machine tool and aircraft industries, as well as lecturing in production engineering, culminating as workshop director (wood, metal and plastics) at the then Gwent College of Higher Education in South Wales, UK. Now retired, he works as a freelance technical author.

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