THE CONTRIBUTION OF PHYSICAL METALLURGY TO ENGINEERING PRACTICE

ROSENAH CENTENARY CONFERENCE

A Joint Symposium of The Metals Society, The National Physical Laboratory, and
The Royal Society held on 22—24 September 1975

The Proceedings of an international conference held in London 22–24 September 1975
to pay honour to the memory of Walter Rosenhain, F.R.S., one of the great metallurgists of
this century. Practising engineers and metallurgists discussed in detail the application of
physical metallurgy to the design and functioning of bridges, pipelines, offshore structures,
airframes, aero engines and undercarriages.

The conference was uniquely successful in showing the relation between the control of
metallurgical structure and its influence on engineering design. Copious examples are given
and many guidelines produced for the future. The development of physical metallurgy as
a university discipline was discussed against this background. The meeting took the form of
six sessions, each consisting of a number of papers under the following headings:

1. ENGINEERING REQUIREMENTS
2. DESIGN IMPLICATIONS FOR MATERIALS SELECTION
3. MATERIALS DEVELOPMENT PRESENT AND FUTURE
4. THE FUTURE ROLE OF PHYSICAL METALLURGY IN
   RELATION TO ENGINEERING PRACTICE
5. THE TASK FOR THE EDUCATOR
6. SUMMARY AND CLOSING REMARKS

(First published in *Philosophical Transactions of the Royal Society:*
Series A Volume 282)

484 pages  29 plates  cloth bound  297 x 210 mm
ISBN 0 85403 081 6
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927 x 210 mm ISBN 0 85403 073 5 197 pages

Price £2.75 (U.K. addresses) £2.85 (Overseas addresses)

Printed in Great Britain
for the Royal Society at the University Press, Cambridge