Development of expert systems for blast furnace operation and control

Project ID: 7210-AA/810
Funded under: ECSC-STEELRES 7C

Abstract
The objective of the research is to develop an on-line expert system which would provide the operators with advice on the optimum control and operation of the blast furnace. The blast furnace chosen for the development was at Redcar BS Teesside Works. This furnace is well instrumented and has an up-to-date computing facility. An evaluation of various commercially available expert system software packages was carried out before the chosen development route was confirmed. During the course of this development various software problems occurred which resulted in the expert system prematurely being brought to a halt. Methods for assessing the performance of the system were investigated through data verification and estimating improvements by laboratory simulations. Due to rapid developments in software for expert systems new application packages are now available which are more suitable for routine production use.

Additional information

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Bibliographic Reference: EUR 14649 EN (1997) 117pp., FS, ECU 20.00

Availability: Available from the (2)