Abridged version

KAWASAKI STEEL TECHNICAL REPORT No.26 (June 1992)

Artificial Intelligence and Wire Rods and Steel Bars

Establishment of Basic Infrastructure for Expert System Development

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Synopsis:

With a view to disseminating expert system (ES) applications within the company, Kawasaki Steel conducted a special program for strengthening fundamentals of its system development. As a central measure, ES development guide book was compiled to standardize development procedures, and a software was developed as supporting tools for ES building standards. The former summarized proper selection standards for ES applications, ES development processes, and job analysis at each process and its keypoints. The latter mainly emphasized eliminating computer environment dependency, the ease of gaining the mastery of tools, and a design for a hypothetical reasoning unction useful in solving vital planning problems in the future. Since 1989, the number of applications using these tools has increased, contributing notably to effective and efficient system development.

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The body can be viewed from the next page.

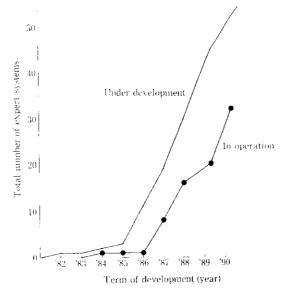
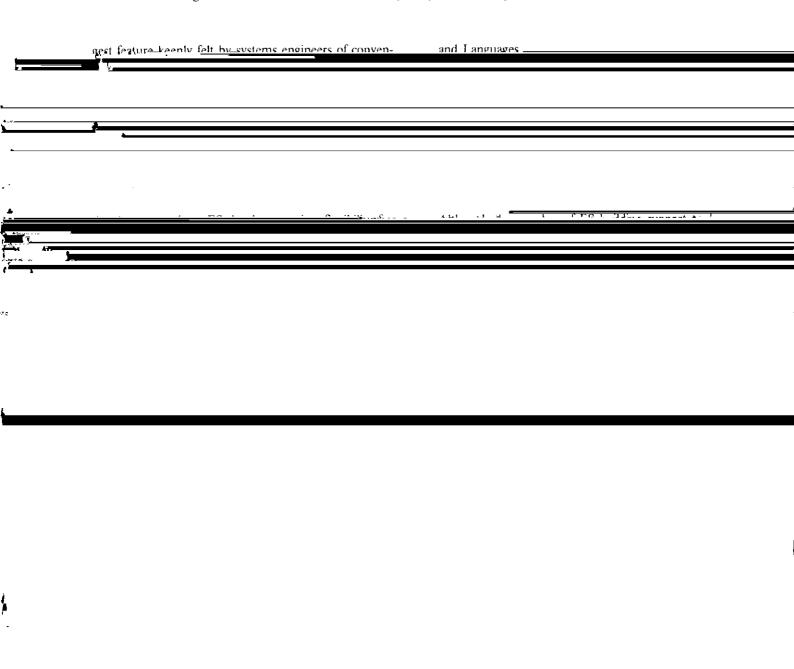
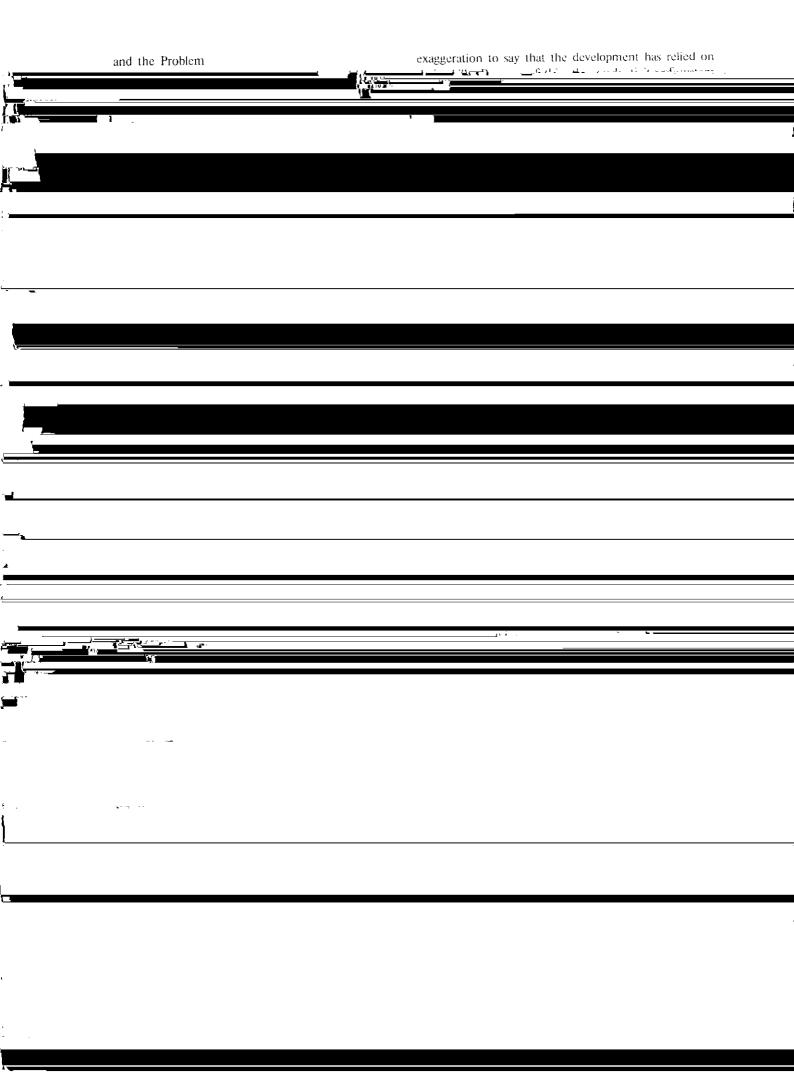
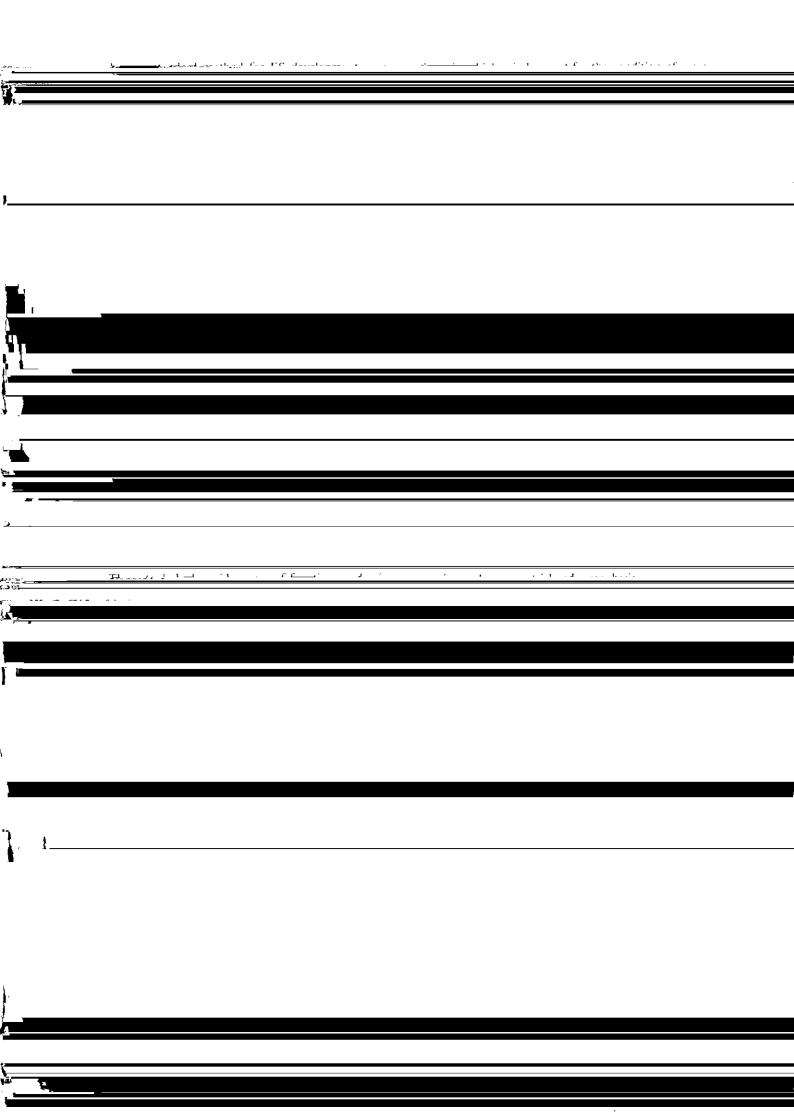
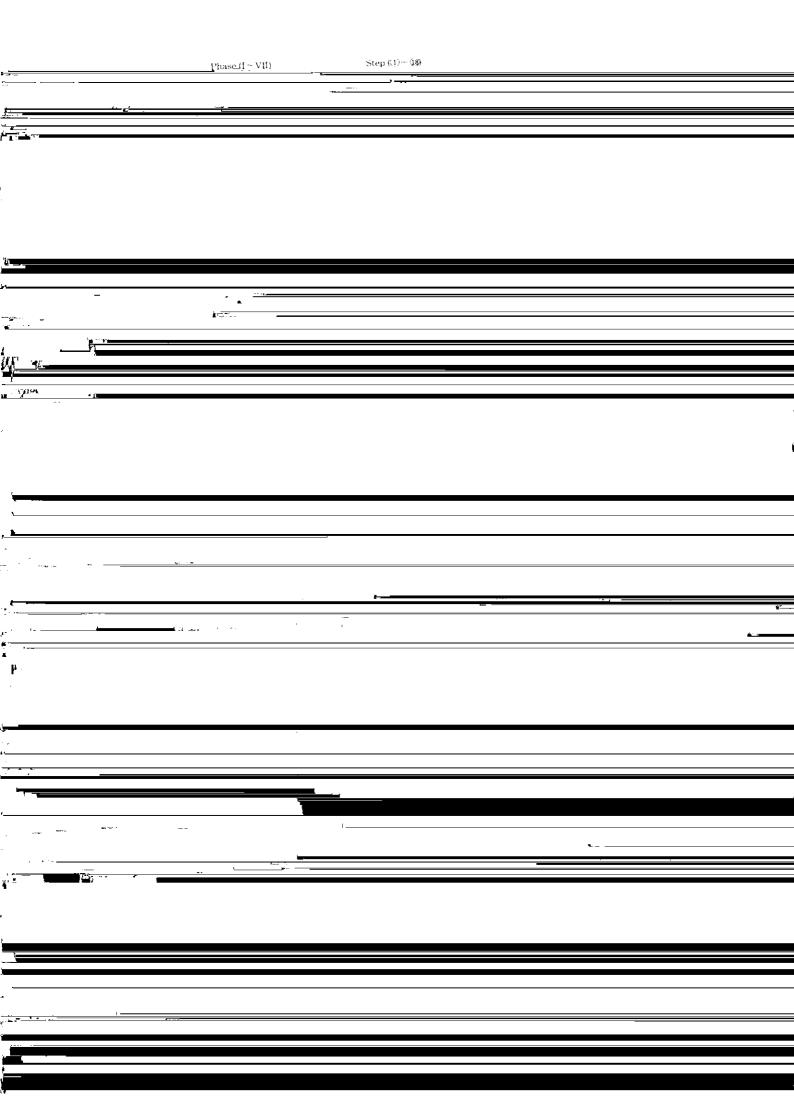


Fig. 1 Increase in total number of expert systems developed by Kawasaki Steel

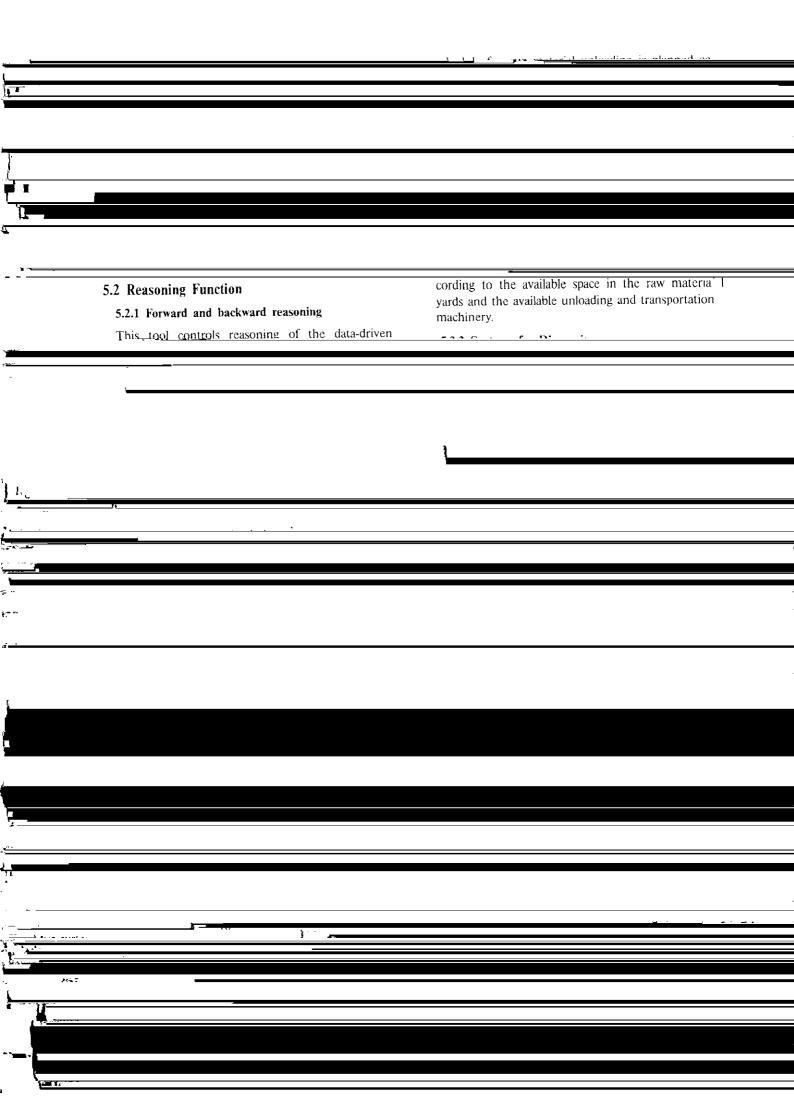








ing tandem mill⁶¹ construct the prototype system to make it conform to Applications 1, 2, and 3 are installed on a mainframe the final objectives and operating environment. computer or work station connected with it, 4 is in-Step 14-Design and Program the Subsidiary Section: stalled on a personal computer and 5 and 6 are also installed on a process computer. Of the type of problem, 4.2.6 Phase V-System testing 1 and 2 are planning applications, 4 and 6 are diagnostic terrance of 2 has an analysistem on 5 to a control ľ



specific dynamic characteristics of equipment has to be 1982, ES has gone through many experiences, receiving many evaluations of pros and cons. Now that overallowed for.