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applications in
system design usually
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knowledge, human-
factors engineering is
a collection of data
and principles about
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capabilities, and
limitations in relation
to machines, jobs,

and environments. As

a process, it refers to

the design of

machines , machine

systems, work

methods, and

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into account the

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prevent frustration,
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However, in practice
the domains of
human factors and
ergonomics have
been sufficiently

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blended on both
sides of the Atlantic
so that the distinction
is often not
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psychology is a
discipline within
psychology, whereas
the study of human
factors is a discipline
within engineering.

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human factors
engineering have
contributed to
remarkable increases
in productivity that
improve the health,
safety, and well-
being of workers and
end-users. Driven by
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concern for improvement in terms of work productivity, absenteeism, workman's compensation costs, and worker morale, human resources will continue to be a critical component of industrial economics.

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engineering is,
therefore, a child of
the times, born of a
mechanized
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been made to such
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design cycle
informed by human
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as the consideration
of the cognitive,
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behavior to improve
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definition overlaps
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in human centered
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Covering physical
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knowledge the
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Although still true to
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interface, the field of
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system, and has only

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