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3.1 Introduction. 3.2 Applications of Performance-Influencing Factors. 3.3 A Classification Structure for Performance-Influencing Factors. 3.4 Operating Environment. 3.5 Task Characteristics. 3.6 Operator Characteristics. 3.7 Organizational and Social Factors. 3.8 Interaction of Performance-Influencing Factors. 3.9 Variability of Human ...

Apply Engineering Fundamentals to Human Factors Applications With a sound qualitative, mathematical approach, this new book shows how to use fundamental engineering skills to solve human factors application problems. As readers learn to use the same mathematical and analytical methods that are applied to inanimate devices, systems, and processes, they'll enhance their understanding of the interface between human factors and engineering science. Plus, the book shows how to apply human factors engineering concepts to ergonomic engineering practice and biomedical engineering, including evaluating the trade off in equipment design and human operator capabilities. Hey Features * A review of the relevant engineering fundamentals is provided prior to introducing the human factors applications. * Numerous worked examples, integrated throughout the text, show students how the relevant equations are used in a real-world human factors application. * Matlab is employed in the worked examples. This allows quantitative simulation of human operator performance that involves systems of simultaneous linear equations and non-linear equations.

On one of my returns to California, I attended the "Disabilities Expo 88" at the Los Angeles Convention Center. Among the various marvels oftech nology for the wheelchair disabled were stair-climbing wheelchairs, self raising and lowering kitchen cabinetry, and even a completely accessible "dude ranch"

experience. At the same time, as a guest of the Southern California Chapter of the National Spinal Cord Injury Association, I was part of a small booth (among the more than two hundred exhibitors) in which we had spinal cord injured people up and walking with a lower extremity bracing system (the reciprocating gait orthosis) used at the PEERS Spinal Injury Program in Los Angeles. I had a young man, a C6/7 level quadriplegic, walking with electrical muscle stimulation and lower extremity bracing. The system is reviewed in Chapter 8 of this book. As these "disabled" persons walked erect and upright among their wheel chair bound colleagues and took long, confident strides past exhibits extolling the latest technological virtues of yet another "new" wheelchair (Fig. 1), I reflected on the paradox of it all. What a majority of these paralyzed people were really looking for was an alteration of their disability so that they could more normally function (in an unaltered environment). What the great majority of the exhibitors were offering was an alteration of the environment so that they could more normally function (with an unaltered disability).

This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.

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