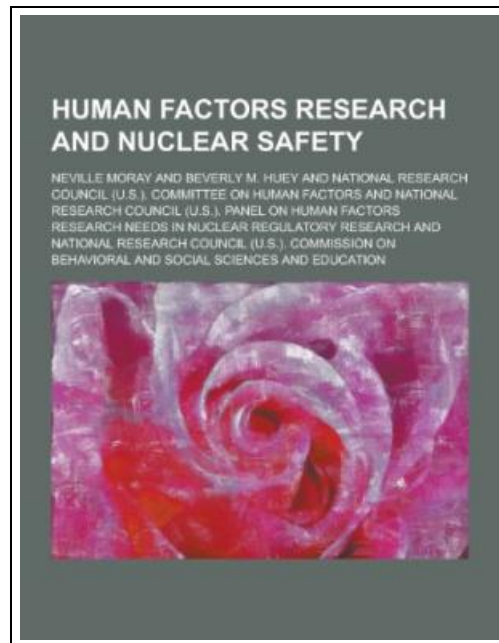


Human Factors Research and Nuclear Safety



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Reviews

Very helpful to all of group of men and women. It can be written in easy terms instead of confusing. You will like how the writer wrote this book.

(Dr. Daren Mitchell PhD)

HUMAN FACTORS RESEARCH AND NUCLEAR SAFETY



Theclassics.us, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1988-01-01 edition. Excerpt: .training simulators or in-plant studies. Field research usually cannot progress beyond a limited point without longitudinal studies. For this reason alone, cooperation with operating utilities is essential. In addition, the economic incentives for training research are probably as great as, and perhaps more readily demonstrated than, the safety incentives. Figures given in DOE EP-0096-1983 show very large economic gains from well-designed training schemes. Independent NRC research in the closely related area of operator licensing examinations (testing) appears to be warranted and appropriate; there should be strong interactions between the two programs. New Training Approaches Rationale and Background Training currently focuses on whole-scope tasks with high face validity--an entire emergency incident or an entire plant startup in an environment with high physical fidelity using a full-scale plant-referenced simulator. Training on component tasks, especially the most difficult or critical ones, is given less emphasis. Although the industry, led by INPO, has adopted an aggressive systems approach to training, the work to date has focused entirely on the application of training technology and not on more fundamental questions of the nature of skill acquisition, maintenance, and decay. Research in these areas has the potential to improve the performance of nuclear power plant staff dramatically. New developments in training technology are increasing the potential for alternative approaches that emphasize concept training (Hollan, Hutchins, and Weitzmann, 1984), exploration training for procedural and controls skills (Woolf et al., 1986), and decision-making training for cognitive skills (e.g., Chipman, Segal, and Glaser,...



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