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EXPERIMENTAL RESULTS; INTRODUCTION; MODEL OF DRIVER-BEHAVIOUR
DIGITAL SIMULATION; EXPERIMENTAL PROCEDURE; RESULTS; DISCUSSION; CONCLUSION; REFERENCES; APPENDIX; Chapter 5. THE AIR TRAFFIC CONTROLLER'S PICTURE AS AN EXAMPLE OF A MENTAL MODEL; INTRODUCTION; INTERVIEWS WITH TRAINING CONTROLLERS; VERBAL PROTOCOLS FROM A STUDY OF SECTOR HANDOVER; REPLAY TECHNIQUE: THE INVESTIGATION OF ESTABLISHED PICTURE; THE DEVELOPMENT OF THE REPLAY TECHNIQUE; REFERENCES; Chapter 6. THE DERIVATION OF HANDLING QUALITIES CRITERIA FROM PRECISION PILOT MODEL CHARACTERISTICS; INTRODUCTION; CLOSED LOOP ANALYSIS; CONCLUSIONS; CONSEQUENCES; REFERENCES; DISCUSSION OF SESSION 1
Chapter 7. ON THE MODELLING OF THE HUMAN PROCESS
OPERATOR; INTRODUCTION; TOWARDS A NEW CONTROL ROOM; CONCLUSIONS; REFERENCES; Chapter 8. AN INTEGRATED DISPLAY SET FOR PROCESS OPERATORS; INTRODUCTION; SYSTEM REPRESENTATION; INFORMATION DISPLAY STRUCTURE; AN EXAMPLE; CONCLUSION; REFERENCES; Chapter 9. A MULTI-LEVEL ALARM INFORMATION PROCESSING SYSTEM APPLIED TO THERMAL POWER PLANT; INTRODUCTION; MULTI-LEVEL ALARM INFORMATION PROCESSING SYSTEM; DESIGN AND IMPLEMENTATION; EVALUATION; CONCLUSION; REFERENCES
Chapter 10. ERGONOMIC ASPECTS OF WORKING PLACES WITH VDU'S IN CONTROL ROOMS - COMPARISON TO WORKING PLACES WITH VDU'S IN OFFICES; INTRODUCTION; DESCRIPTION OF TYPICAL CLASSES OF WORK STATIONS WITH VDU'S; METHOD OF INVESTIGATION; RESULTS; ACKNOWLEDGEMENTS; REFERENCES; Chapter 11. CONTROL AND SUPERVISION OF THE EURELIOS SOLAR POWER PLANT: DESIGN PHILOSOPHY AND OPERATION EXPERIENCE; INTRODUCTION; OVERALL SYSTEM ORGANIZATION; PLANT MODELLING AND OPERATION; PLANT CONTROL AND AUTOMATION; MAN-MACHINE INTERACTION; THE SUPERVISION SYSTEM; CONCLUDING REMARKS; ACKNOWLEDGEMENTS; REFERENCES
Chapter 12. COMPUTER AIDED CONTROL STATION WITH COLOURED DISPLAY FOR PRODUCTION CONTROL

Sommario/riassunto

Analysis, Design, & Evaluation of Man-Machine Systems presents an examination of the construction and application of a combined network and production systems model. It discusses the computer simulation and experimental results of a fuzzy model of driver behavior. It addresses the ergonomic aspects of working places in control rooms. Some of the topics covered in the book are the control and supervision of the eurelios solar power plant; computer aided control station with coloured display for production control; dynamic and static models for nuclear reactor operators; ironies of automation; a
