

Some Reliability and Safety References

- [1] R. Andsten, J. Vaurio (1989)
RELIABILITY IMPORTANCE MEASURES AND THEIR CALCULATION
IVO-A-01/89, Helsinki, January 1989
- [2] A.H.-S. Ang, Edt. (1989)
STRUCTURAL SAFETY AND RELIABILITY PROCEEDINGS
ICOSSAR'89, San Francisco, August 7-11, 1989, ASCE, New York
- [3] G. Apostolakis, P. Kafka, G. Mancini, Edts. (1988)
ACCIDENT SEQUENCE MODELING
Elsevier Applied Science, London, New York, ISBN 1-85166-210-3
- [4] G. Apostolakis, P. Kafka, Edts. (1989)
THE ROLE OF DATA AND JUDGEMENT IN PROBABILISTIC RISK
AND SAFETY ANALYSIS
NEDEA 93 (2&3) pp. 121-378
- [5] G. Apostolakis, P. Kafka (1989)
ADVANCES IN PROBABILISTIC SAFETY ASSESSMENT
Principal Division P Lecture
SMiRT-10, LA, California, August 14-18, 1989
- [6] G. Apostolakis (1990)
THE CONCEPT OF PROBABILITY IN SAFETY ASSESSMENT OF
TECHNOLOGICAL SYSTEMS
Science, Dec. 7, 1990, Vol. 250, pp. 1359-1364
- [7] G. Apostolakis, P. Kafka, Edts. (1990)
THE ROLE OF PERSONAL COMPUTERS IN PROBABILISTIC SAFETY
ASSESSMENT AND DECISION MAKING
Elsevier Applied Science, 379-398, ISBN 1-85166-501-3
- [8] G. Apostolakis, Edt. (1991)
PSAM'89, PROBABILISTIC SAFETY ASSESSMENT AND MANAGE-
MENT
Proceedings, Elsevier, ISBN 0-444-01594-9
- [9] A. Azarm, F. Hsu, G. Martinez-Guridi, W. E. Vesely (1993)
METHODS FOR DEPENDENCY ESTIMATION AND SYSTEM UN-
AVAILABILITY EVALUATION BASED ON FAILURE DATA STATISTICS
NUREG/CR-5993, BNL-NUREG-52362, VOL. 1(1993), US. Nuclear Re-
gulatory Commission, Washington DC
- [10] R. E. Barlow, G. Clarotti, F. Spizzichino (1993)
RELIABILITY AND DECISION MAKING
Chapman & Hall, ISBN 0412 53480 0, 1993
- [11] G. Becker, U. Hussels (1988)
PC-RISA; A TOOL FOR RELIABILITY ANALYSIS ON A PC
Program Description, T. U. Berlin, 1988
- [12] J. O. Berger (1985)
STATISTICAL DECISION THEORY AND BAYESIAN ANALYSIS
Springer Verlag, New York
- [13] D. Bley, S. Kaplan, D. Johnson (1992)
THE STRENGTHS AND LIMITATIONS OF PSA: WHERE WE STAND
Reliability Engineering & System Safety, Vol. 38 (1992)

- [14] A. Boiadjev, L. Ledermann, H. Vallerga (1989)
PSAPACK: AN EVENT/FAULT TREE PACKAGE FOR PSA USING
PERSONAL COMPUTERS
PSA'89, Pittsburgh, Proceedings, pp. 523 - 529
- [15] U. Bourgund and C. G. Bucher (1986)
IMPORTANCE SAMPLING PROCEDURES USING DESIGN POINTS
(ISPUD)
A User's Manual, Report No. 8-86
Institute of Mechanics, Univ. of Innsbruck, October 1986
- [16] CEC (1984)
EUROPEAN RELIABILITY DATA SYSTEM
Component Event Data Handbook
PER 855/1/84 JRC, Ispra, 1984
- [17] S. Chibber, G. Apostolakis, D. Okrent (1991)
ON THE QUANTIFICATION OF MODEL UNCERTAINTY
Proceeding of the International Conference on Probabilistic Safety
Assessment and Management (PSAM), Beverly Hills, Ca, USA pp. 1483-
1488, February 1991
- [18] S. Contini, A. Poucet (1987)
SALP-PC: A FAULT TREE CODE ON PERSONAL COMPUTER FOR
PLANT SAFETY ASSESSMENT
PP. E. R. 1291/87, Joint Research Centre Ispra/Italy, 1987
- [19] N. J. McCormick (1981)
RELIABILITY AND RISK ANALYSIS METHODS AND NUCLEAR PO-
WER APPLICATIONS
Academic Press, 1981
- [20] W. J. Reece, D. I. Gertman (1992)
NUCLARR: A WORKSTATION SOFTWARE PACKAGE TO SUPPORT
RISK ASSESSMENT
Reliability, Engineering and System Safety, Vol. 37, No. 2, pp. 173-179
- [21] W. Denson, G. Chandler, W. Corwell, R. Wanner (1991)
NONELECTRONIC PARTS RELIABILITY DATA
Reliability Analysis Center Ordering No.: NPRD-91
- [22] J. Devooght, B. Tombuyses, C. Smith (1993)
THE USE OF THE COMPONENT INFLUENCE GRAPH TO REDUCE
THE SIZE OF MARKOVIAN RELIABILITY PROBLEMS
Proceedings Elsevier, ESREL'93, München, pp. 661-671, ISBN: 0
44481561 9
- [23] Deutsches Institut für Normung (1989)
GÜTE UND PRUFKRITERIEN FÜR ANWENDUNGSSOFTWARE
DIN66285, Beuth Verlag 1989
- [24] W. Ehrenberger, F. Saglietti (1993)
ARCHITECTURE AND SAFETY QUALIFICATION OF LARGE SOFTWARE
SYSTEMS
Proceedings Elsevier, ESREL'93, München, pp. 985-1001, ISBN: 0
44431561 9
- [25] K. N. Fleming, A. Mosleh and R. K. Deremer (1986)
A SYSTEMATIC PROCEDURE FOR THE INCORPORATION OF COM-
MON MODE EVENTS INTO RISK AND RELIABILITY MODELS'
Nuclear Engineering and Design, 93, pp. 245-273

- [26] K. Furuta, S. Kondo (1993)
GROUP RELIABILITY ANALYSIS
Proceeding of the International Topical Meeting on Probabilistic Safety Assessment PSA'93, Clearwater Beach, Florida, USA, January 26-29, 1993
- [27] S. Garribba, P. Kafka (1985)
SYSTEM RELIABILITY
Pre-Launching Meeting of the European Safety and Reliability Association
Ispra 9 -12 October 1984, Proceedings: EUR 10006 EN, Juni 1985, pp. 45-77
- [28] D. Gertrmann, et al. (1988)
NUCLEAR COMPUTERIZED LIBRARY FOR ASSESSING REACTOR RELIABILITY (NUCLARR)
NUREC/CR-4639, ECC-2458, 1988
- [29] Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH (1990)
DEUTSCHE RISIKOSTUDIE KERNKRAFTWERKE'
Phase A, Phase B, ISBN 3-88585-809-6, Köln, Verlag TÜV Rheinland
- [30] Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH (1993)
SWR SICHERHEITSANALYSE
Abschlussbericht, Teil 1, Teil 2, GRS-102/1
- [31] W. Güldner, H. Polke, H. Spindler, G. Zipf (1985)
COMPUTER CODE PACKAGE RALLY, FOR THE PROBABILISTIC SAFETY ASSESSMENT OF LARGE TECHNICAL SYSTEMS
GRS-57, April 1985, ISBN 3-923875-05-3
- [32] K. Gullen (1992)
PC-FTA Program Manual
AECL Research, Chalk River, Canada
- [33] G. W. Hannaman et al: SHARP (1984)
SYSTEMATIC HUMAN ACTION RELIABILITY PROCEDURE
EPRI-NP-3585
- [34] G. W. Hannaman, D. H. Worledge (1988)
SOME DEVELOPMENTS IN HUMAN RELIABILITY ANALYSIS, APPROACHES AND TOOLS ACCIDENT SEQUENCE MODELLING
Elsevier Applied Science, London, New York, ISBN 1-85166-210-3
- [35] D. O. Harris; I. E. Lim; D. D. Dedhia (1981)
PROBABILITY OF PIPE FRACTURE IN THE PRIMARY COOLANT LOOP OF A PWR PLANT'
NUREG/CR-2189, Vol. 5, 1981
- [36] S. Hirschberg (1990)
DEPENDENCIES, HUMAN INTERACTIONS AND UNCERTAINTIES IN PROBABILISTIC SAFETY ASSESSMENT
Final Report of the NKA Project RAS 470
ABB Atom AB, Sweden (April 1990)
- [37] H. Hoertner, P. Kafka, G. Reichart (1987)
EVALUATION OF OPERATING EXPERIENCE - THE GERMAN PRECURSOR STUDY
IAEA, Case Study 1.12, October 1987
- [38] E. Hofer (1990)
ON SOME DISTINCTIONS IN UNCERTAINTY ANALYSIS
Proceedings, OECD/NEA Meeting, Madrid, March 1990

- [39] E. Hofer (1990)
THE GRS PROGRAMME PACKAGE FOR UNCERTAINTY AND SENSITIVITY ANALYSIS
Proceedings, CEC Seminar, Athens, EUR13013, Vol. 2 (1990)
- [40] E. Hofer (1993)
PROBABILISTISCHE UNSICHERHEITSANALYSE VON ERGEBNISSEN UMFANGREICHER RECHENMODELLE
GRS-A-2002, Januar 1993
- [41] B. E. Horne (1988)
THE ESSENTIAL SYSTEMS STATUS MONITOR FOR HEYSHAM 2 NUCLEAR POWER STATION
TCM, IAEA Vienna, 17- 21. Okt. 1988
- [42] A. Hoyland, M. Rausand (1994)
SYSTEM RELIABILITY THEORY
John Wiley & Sons Inc. ISBN 0-471-59397-4, 1995
- [43] P. Humphreys and B. D. Johnston (1987)
DEPENDENT FAILURES PROCEDURES GUIDE
Safety and Reliability Directorate (SRD), March 1987
- [44] P. Humphreys (1988)
HUMAN RELIABILITY ASSESSORS GUIDE
Safety and Reliability Directorate RT588/95Q, 1988
- [45] International Atomic Energy Agency (1989)
MODELS AND DATA REQUIREMENTS FOR HUMAN RELIABILITY ANALYSIS
IAEA-TECDOC-499 (1989)
- [46] International Atomic Energy Agency (1991)
CASE STUDY ON THE USE OF PSA METHODS: HUMAN RELIABILITY ANALYSIS
IAEA-TE0000-592 (1991)
- [47] International Atomic Energy Agency (1992)
PROCEDURES FOR CONDUCTION COMMON CAUSE FAILURE ANALYSIS IN PROBABILISTIC SAFETY ASSESSMENT'
IAEA-TECDOC-648 (1992)
- [48] International Electrotechnical Commission (1987)
SOFTWARE IN THE SAFETY SYSTEMS OF NUCLEAR POWER STATION 5
IEC Standard No 680, 1987
- [49] D. Ilberg, L. Lederman (1991)
A REVIEW OF COMPUTER PROGRAMS APPLIED IN LEVEL 1 PROBABILISTIC SAFETY ASSESSMENT
PSA'91, IAEA-SM-321/58
- [50] G. Johanson, J. Holmberg, Edts. (1994)
SAFETY EVALUATION BY LIVING PROBABILISTIC SAFETY ASSESSMENT
SKI Report 94:2, 1994
- [51] P. Kafka (1989)
ZUVERLASSIGKEIT MECHANISCHER KOMPONENTEN, STRUKTUREN UND SYSTEME - METHODEN UND IHRE ANWENDUNG
VDI-Berichte Nr. 771

- [52] P. Kafka, H. Kunitz (1990)
COMPUTERIZED SYSTEMS FOR HIGH-LEVEL INFORMATION
PROCESSING AND DECISION-MAKING IN NPPs
Reliability Engineering and System Safety, Vol 30, 1990
- [53] P. Kafka (1992)
GEFAHR - GEFÄHRDUNG - RISIKO
atomwirtschaft, atw, Juni 1992
- [54] P. Kafka (1993)
PROBABILISTIC SAFETY ASSESSMENT (PSA) TECHNOLOGY - HOW
IT WORKS, WHAT DOES IT DO, WHERE ARE THE GAPS
Proceedings Elsevier, ESREL'93, München, pp. 393-404, ISBN: 0
44481561 9
- [55] P. Kafka, J. Wolf, Edts. (1993)
SAFETY AND RELIABILITY ASSESSMENT - AN INTEGRAL
APPROACH
Proceedings Elsevier, ESREL'93, München, ISBN: 044481561 9
- [56] D. Kececioğlu (1991)
RELIABILITY ENGINEERING HANDBOOK
Volume 1, Volume 2
Department of Aerospace and Mechanical Engineering, The University of
Arizona, PTR Prentice Hall, Englewood Cliffs, New Jersey
- [58] I.S. Kirn, S. Martorell, W. E. Vesely, P. K. Samanta (1991)
QUANTITATIVE EVALUATION OF SURVEILLANCE TEST INTERVALS
INCLUDING TEST-CAUSED RISKS
NUREG/CR-5775, 1991, US. Nuclear Regulatory Commission, Washington
DC
- [59] B. Krzykacz (1990)
MEDUSA 01 - EIN PROGRAMM ZUR GENERIERUNG VON 'SIMPLE-
RAN- DOM' - UND LATIN-HYPERCUBE-STICHPROBEN FÜR UNSI
CHERHEITS- UND SENSITIVITÄTSANALYSEN VON ERGEBNISSEN
UMFANGREICHER RECHENMODELLE
GRS-A 1496, GRS, (1988)- English Supplement to this Report (1990)
- [60] L. Lederman (1988)
ACCIDENT SEQUENCES SENSITIVE TO HUMAN ERRORS
Reliability Engineering and System Safety 22, pp. 269-276
- [61] L. Lederman, F. Niehaus, B. Tomic (1993)
PROBABILISTIC SAFETY ASSESSMENT - PAST, PRESENT AND FU-
TURE
Principal Division Lecture Division M, SMiRT 12, Stuttgart
- [62] H. Levinson, H. T. Daughtrey (1993)
RISK ANALYSIS OF SOFTWARE-DEPENDENT SYSTEMS
Proceedings of the International Topical Meeting on Probabilistic Safety
Assessment, PSA'93, Clearwater Beach, Florida, USA, January 26-29,
1993
- [63] A. P. Macwan, K. S. Hsueh, A. Mosleh (1991)
AN APPROACH TO MODELLING OPERATOR BEHAVIOUR IN INTE-
GRATED DYNAMIC ACCIDENT SEQUENCE ANALYSIS
PSA'91, Wien, IAEA-SM-321/4

- [64] A. P. Macwan, A. Mosleh (1993)
A SIMULATION-BASED APPROACH TO MODELING ERRORS OF
COMMISSION DURING NUCLEAR POWER PLANT ACCIDENTS:
APPLICATION TO PRA
Proceedings of the International Topical Meeting on Probabilistic Safety
Assessment, PSA'93, Clearwater Beach, Florida, USA, January 26-29,
1993
- [65] T. Mankamo, M. Kosonen (1992)
DEPENDENT FAILURE MODELING IN HIGHLY REDUNDANT
STRUCTURES - APPLICATION TO BWR SAFETY VALVES
Reliability Engineering and System Safety, Vol. 35, No. 3, 1992
- [66] Messerschmitt-Bölkow-Blohm GmbH, München (1986)
TECHNISCHE ZUVERLÄSSIGKEIT
Springer-Verlag, Berlin, 1986
- [67] S. Milivojevic & J. R. Riznic (1989)
THE EMPIRICAL FAILURE RATE AND REPAIR TIME OF PWR PRI-
MARY COOLANT PUMPS
Reliability Engineering and System Safety 24, pp. 267-273
- [68] A. Miles, J. Cooper, I. Cox (1992)
COMPUTER-AIDED QUANTITATIVE RISK ANALYSIS FOR OFFSHO-
RE PLATFORMS USING AN ESCALATION SIMULATOR
ESRATC-Meeting, Lissabon, 1-2.11.1992
- [69] L. A. Miller, E. Groundwater, S. M. Mirsky (1993)
SURVEY AND ASSESSMENT OF CONVENTIONAL SOFTWARE
- [70] VERIFICATION AND VALIDATION METHODS
NUREG/CR-6018 (1993), US. Nuclear Regulatory Commission, Wa-
shington DC
- [71] A. Mosleh, K. N. Fleming, G. W. Parry, H. M. Paula, D. M. Rasmuson,
D. H. Worledge (1989)
PROCEDURES FOR TREATING COMMON CAUSE FAILURE IN
SAFETY AND RELIABILITY STUDIES
NUREG/CR-4780, EPRI/NP-5613, VOL. 1, (1986, 1969), US. Nuclear
Regulatory Commission, Washington DC
- [72] F. Mosheron-Dupin, G. Sahin, R. Lars (1991)
PROBABILISTIC HUMAN RELIABILITY ANALYSIS: THE LESSON DE-
RIVED FROM PLANT OPERATION AT EDF'
Proceedings of the International Symposium on the Use of Probabilistic
Safety Assessment for Operational Safety, PSA'91, Vienna, Austria, 3 - 7
June 1991
- [73] A. Mosleh, G. W. Parry, A. F. Zikria (1993)
AN APPROACH TO THE PARAMETERIZATION OF JUDGEMENT IN
THE ANALYSIS OF COMMON CAUSE FAILURE DATA
Proceedings of the International Topical Meeting on Probabilistic Safety
Assessment, PSA'93, Clearwater Beach, Florida, USA, January 26-29,
1993
- [74] OREDA (1984)
OFFSHORE RELIABILITY DATA HANDBOOK (1984)
Published by the Oreda Participants, distributed by DNV

- [75] IVSS (1992)
PAAG-Verfahren (HAZOP)
IVSS, Heidelberg. 1992
- [76] A. Poucet (1989)
THE EUROPEAN BENCHMARK EXERCISE ON HUMAN RELIABILITY
ANALYSIS
PSA'89, Pittsburg, Proceedings, pp. 103
- [77] S. B. Rao, G. A. Tinsley, K. N. Fleming (1993)
COMMON CAUSE EVENT DATABASE FOR RISK AND RELIABILITY
EVALUATIONS
Proceedings of the International Topical Meeting on Probabilistic Safety
Assessment, PSA '93
- [78] Relcon AB Sweden (1990)
RISK SPECTRUM FT, Users Manual (Draft)
December 1990
- [79] Reliability Analysis Center (1991)
FAILURE MODE/MECHANISM DISTRIBUTIONS
Rome Laboratory, NY, Order No. FMD-91
- [80] Riskman (1989)
PROGRAM DEMONSTRATION BY PICKARD, LOWE and GARRICK
(PLG)
Post SMIRT-10, Seminar No. 7, Los Angeles, 1989
- [81] K. D. Russel, M. B. Sattison (1990)
LIVING PRAs MADE EASIER WITH IRRAS
Reliability Engineering and System Safety, Vol 30; 1990
- [82] S. Salem, G. Apostolakis (1976)
COMPUTER ORIENTED APPROACH TO FAULT TREE
CONSTRUCTION
UCLA Eng. Report ENG-7635, UCLA, Los Angeles, 1976
- [83] P. K. Samanta, W. E. Vesely, I. S. Kim (1991)
STUDY OF OPERATIONAL RISK-BASED CONFIGURATION CONTROL
NUREG/CR-5641, BNL-NUREG-52261 (1991), U.S. Nuclear Regulatory
Commission, Washington DC
- [84] L. J. Savager (1972)
THE FOUNDATION OF STATISTICS
Dover, New York, ed. 2
- [85] G. I. Schueller (1981)
EINFÜHRUNG IN DIE SICHERHEIT UND ZUVERLASSIGKEIT
VON TRAGWERKEN
Verlag von Wilhelm Ernst & Sohn, Berlin, München
- [86] R. Schäfer, G. I. Schueller and P. Kafka (1984)
PROBABILISTISCHE UNTERSUCHUNG DES RIßFortschritts-
VERHALTENS VON REAKTORKOMPONENTEN
IABG-Report TF-1605, Ottobrunn, F. R. Germany, March 1984
- [87] G. I. Schueller (1987)
RELIABILITY OF NUCLEAR STRUCTURES
Principal Division Lecture: Advances in Structural Reliability, SMIRT-9, A.
A. Balkema, Rotterdam/Boston

- [88] G. I. Schueller, R. Stix (1987)
A CRITICAL APPRAISAL OF METHODS TO DETERMINE FAILURE
PROBABILITIES
Journal of Structural Safety 4, pp. 293-309
- [89] G. I. Schueller, N. C. Hampl and H. J. Pradlwarter (1988)
FRAGILITY OF PRIMARY PIPING OF NUCLEAR POWER PLANTS
Nuclear Engineering and Design, pp. 221-227, North-Holland, Amsterdam
- [90] G. I. Schueller, A. Tsurui, J. Nienstedt (1989)
ON THE FAILURE PROBABILITY OF PIPINGS
Paper, SM1RT-10, Los Angeles
- [92] U. Sharma, M. Sudhakar (1993)
USE OF RECURSIVE METHODS IN FUZZY FAULT-TREE ANALYSIS:
AN AID TO QUANTITATIVE RISK ANALYSIS
Reliability Engineering and System Safety, Vo. 41, NO.3 pp.231-239
- [93] A. I. Spurgin, et al. (1990)
OPERATOR RELIABILITY EXPERIMENTS PROGRAM Vol. 1, 2, 3
EPRI NP-6937, 1990
- [94] A. D. Swain, H. E. Guttmann (1983)
HANDBOOK OF HUMAN RELIABILITY ANALYSIS WITH EMPHASIS
ON NUCLEAR POWER APPLICATIONS
NUREG/CR-1 278, US. Nuclear Regulatory Commission, Washington
DC
- [95] Technica Ltd. (1992)
CARA, Whazan, PC SOFTWARE FOR QRAs
London, 7/12 Tavistock Square, U. K.
- [96] B. Tomic (1993)
RISK-BASED OPTIMIZATION OF MAINTENANCE - METHODS AND
APPROACHES
Proceedings Elsevier, ESREL'93, München, pp. 259-267, ISBN: 0
44481561 9
- [97] Ch. H. Tsai, W.F. Wu (1993)
APPLICATION OF PROBABILISTIC FRACTURE MECHANICS TO THE
RISK ASSESSMENT OF PRESSURE VESSELS
Proceedings, SMiRT 12, Stuttgart, Division M, pp. 135-142
- [98] S. Urgasiev, H. Vallergera (1993)
OPTIMIZATION OF TEST STRATEGIES: A GENERAL APPROACH
Reliability Engineering and System Safety, Vol. 41. NO. 2 1993, pp.
155-167
- [99] Verein Deutscher Ingenieure (VDI) (1985)
Handbuch TECHNISCHE ZUVERLASSIGKEIT
VDI Düsseldorf, August 1985
- [100] W. E. Vesely, F. F. Goldberg, N. H. Roberts, D. F. Haase (1981)
FAULT TREE HANDBOOK
NUREG-0492, January 1981
- [101] W. E. Vesely (1981)
INCORPORATING AGING EFFECTS INTO PROBABILISTIC RISK
ANALYSIS USING A TAYLOR EXPANSION APPROACH
Reliability Engineering and System Safety, RESS, Vol. 32, No. 3

- [102] W. E. Vesely, G. A. Burlile (1988)
SYSTEM UNAVAILABILITY INDICATORS APPLIED TO THE PAST HISTORIES OF FIVE PLANTS
Report, 28. November 1988,
- [103] W. E. Vesely, T. C. Davis, R. S. Denning, N. Saltos (1989)
MEASURES OF RISK IMPORTANCE AND THEIR APPLICATIONS
NUREG/CR-3385, Battelle Columbus Laboratories
- [104] W. E. Vesely (1993)
QUANTIFYING MAINTENANCE EFFECTS ON UNAVAILABILITY AND RISK USING MARKOV MODELING
Reliability Engineering and System Safety, Vol. 41. NO.2 1993, pp. 177-189
- [105] A. Villemeur (1992)
RELIABILITY, AVAILABILITY, MAINTENABILITY AND SAFETY ASSESSMENT
Volume 1, 2, John Wiley & Sons, ISBN 00471 930482
- [106] R. K. Virolainen, Edt. (1993)
STATE OF THE ART OF LEVEL-1 PSA METHODOLOGY
A Report Prepared by a Task Force of Principal Working Group No. 5 of the NEA Committee of the Safety of Nuclear Installations (CSNI)
- [107] US. NRC (1975)
WASH 1400; REACTOR SAFETY STUDY
USNRC, Washington D. C. (October 1975)
- [108] H. J. Wingender, Edt. (1986)
RELIABILITY DATA COLLECTION AND USE IN RISK AND AVAILABILITY ASSESSMENT
EUREDATA Conference. 9. - 11 April 1986, Springer Verlag
- [109] D. D. Woods et al. (1990)
THE OPERATIVE ENVIRONMENT SIMULATION AS A TOOL FOR MODELLING HUMAN PERFORMANCE AND RELIABILITY'
NUREG/CR-5213 Vol. 1, 2, US. Nuclear Regulatory Commission, Washington DC
- [110] D. H. Worledge (1993)
INDUSTRY ADVANCES IN RELIABILITY CENTERED MAINTENANCE
Proceedings Elsevier, ESREL'93, München, ISBN: 044481561 9
- [111] W.S. Wu, G. Apostolakis (1992)
DEPENDENT FAILURE MODELS
Contribution to a Manual for Probabilistic and its Application in Safety Decisions, UCLA, USA, 1992
- [112] G. Xie, D. Xue, S. Xi (1993)
TREE-EXPERT: A TREE-BASED EXPERT SYSTEM FOR FAULT TREE CONSTRUCTION
Reliability Engineering and System Safety, Vol. 41. NO 2,1993, pp. 189-197
- [113] G. Yagawa, G. W. YE (1993)
A PROBABILISTIC FRACTURE MECHANICS ANALYSIS FOR CRACKED PIPE USING 3-D MODEL
Reliability Engineering and System Safety, Vol. 40. NO 3,1993, pp. 295-311

Some Software Reliability References

- [1] A. Avizienis, J. C. Laprie
DEPENDABLE COMPUTING FOR CRITICAL APPLICATIONS
DEPENDABLE COMPUTING AND FAULT-TOLERANT SYSTEMS
Vol. 4, Springer-Verlag Wien 1991
- [2] M. Barnes, P. Bishop, B. Bjarland, G. Dahll,
D. Esp, J. Lahti, H. Välisuo, P. Humphreys
SOFTWARE TESTING AND EVALUATION METHODS (The STEM Project)
OECD Halden Reactor Project, HWR-210, May 1987
- [3] R. L. Baber
THE SPINE OF SOFTWARE
John Wiley & Sons Ltd. 1987
- [4] R. C. Backhouse
PROGRAMMKONSTRUKTION UND VERIFIKATION
Carl-Hanser-Verlag und Prentice-Hall International 1986
- [5] B. Beizer
SOFTWARE TESTING TECHNIQUES
Van Nostrand Reinhold New York 1990
- [6] P. G. Bishop (Edt.)
DEPENDABILITY OF CRITICAL COMPUTER SYSTEMS 3
Techniques Directory, Elsevier Applied Science 1990
- [7] P. A. Currit, M. Dyer, H. D. Mills
CERTIFYING THE RELIABILITY OF SOFTWARE ENGINEERING
IEEE Transactions on Software Engineering, Vol.SE-12, 1986
- [8] J. W. Duran, S. C. Ntafos
AN EVALUATION OF RANDOM TESTING
IEEE Transactions on Software Engineering, Vol.SE-10, 1984
- [9] J. W. Duran, J. J. Wiorkowski
Quantifying Software Validity by Sampling
IEEE Transactions on Reliability, Vol. R-29, No. 2, June 1980
- [10] K. Echtele
Fehlertoleranzverfahren
Springer-Verlag Berlin 1990
- [11] W. Ehrenberger
COMBINING PROBABILISTIC & DETERMINISTIC VERIFICATION
EFFORTS
Safety of Computer Control Systems 1992
Pergamon Press (H. Frey, Edt.) 1992
- [12] W. Ehrenberger, B. Krzykacz
PROBABILISTIC TESTING
Proceedings of the European Workshop on Industrial
Computer Systems, Graz, Austria 1983
- [13] N. Fenton
SOFTWARE METRICS - A RIGOROUS APPROACH
Chapman & Hall 1991
- [14] M. Geiler
TEST DATA AS AN AID IN PROVING PROGRAM CORRECTNESS
Communications of the ACM, May 1978, Vol. 21, No. 5

- [15] J. B. Goodenough, S. L. Gerhart
TOWARD A THEORY OF TEST DATA SELECTION
IEEE Transactions on Software Engineering, Vol. SE-1,1975
- [16] J. S. Gourlay
A MATHEMATICAL FRAMEWORK FOR THE INVESTIGATION OF
TESTING
IEEE Transactions on Software Engineering, Vol.SE-9,1983
- [17] T. Grams
DENKFALLEN UND PROGRAMMIERFEHLER
Springer Compass, Springer-Verlag Berlin 1990
- [18] W. A. Halang, A. D. Stoyenko
CONSTRUCTING PREDICTABLE REAL TIME SYSTEMS
Kluwer Academic Publishers 1991
- [19] M. Kersken, F. Saglietti (Edt.s)
SOFTWARE FAULT TOLERANCE
ACHIEVEMENT AND ASSESSMENT STRATEGIES
Springer-Verlag Heidelberg 1992
- [20] J. C. Laprie (Edt.)
DEPENDABILITY: BASIC CONCEPTS AND TERMINOLOGY
DEPENDABLE COMPUTING AND FAULT-TOLERANT SYSTEMS, VOL.5
Springer-Verlag Wien 1992
- [21] J. D. Musa, A. Iannino, K. Okumoto
SOFTWARE RELIABILITY - MEASUREMENT, PREDICTION,
APP.LICATION
McGraw-Hill International Editions
Computer Science Series 1987
- [22] W. J. Quirk (Edt.)
VERIFICATION AND VALIDATION OF REAL-TIME SOFTWARE
Springer-Verlag 1985
- [23] F. J. Redmill (Edt.)
DEPENDABILITY OF CRITICAL COMPUTER SYSTEMS 1
Elsevier App.lied Science 1988
- [24] F.J. Redmill (Edt.)
DEPENDABILITY OF CRITICAL COMPUTER SYSTEMS 2
Elsevier Applied Science 1989
- [25] P. Rook
SOFTWARE RELIABILITY HANDBOOK
Elsevier Applied Science 1990
- [26] F. Saglietti, W. Ehrenberger, M. Kersken
SOFTWARE-DIVERSITÄT FÜR STEUERUNGEN
MIT SICHERHEITSVERANTWORTUNG
Bundesanstalt für Arbeitsschutz (Herausgeber)
BAU -Forschungsbericht Fb 664, Dortmund 1992
- [27] D. P. Siewiorek, R. S. Swarz
THE THEORY AND PRACTICE OF RELIABLE SYSTEM DESIGN
Digital Press 1982
- [28] D. J. Smith, K. B. Wood
ENGINEERING QUALITY SOFTWARE
Elsevier Applied Science 1989

- [29] H. Stenger
STICHPROBENTHEORIE
Physica Verlag Würzburg, Wien 1971
- [30] H. Störmer
MATHEMATISCHE THEORIE DER ZUVERLÄSSIGKEIT
Oldenbourg-Verlag München 1970
- [31] VDI-Gemeinschaftsausschuf3 Industrielle Systemtechnik
SOFTWARE-ZUVERLÄSSIGKEIT
GRUNDLAGEN, KONSTRUKTIVE MASSNAHMEN,
NACHWEISVERFAHREN
VDI-Verlag 1993
- [32] U. Voges (Edt.)
SOFTWARE DIVERSITY IN COMPUTERIZED CONTROL SYSTEMS
DEPENDABLE COMPUTING AND FAULT-TOLERANT SYSTEMS, VOL. 2
Springer-Verlag Wien 87
- [33] E. J. Weyuker, T.J. Ostrand
THEORIES OF PROGRAM TESTING
AND THE APP.LICATION OF REVEALING SUB-DOMAINS
IEEE Transactions on Software Engineering, Vol. SE-6, 1980

Some Human Factor References

- [1] Anderson, J. R. (1989): KOGNITIVE PSYCHOLOGIE - EINE EINFÜHRUNG. Spektrum der Wissenschaft, Heidelberg
- [2] Beare, A. N., Dorns, R. E., Bovell, O. R., Crowe, O. S., Kozinsky, E. J. (1984): A SIMULATOR BASED STUDY OF HUMAN ERRORS IN NUCLEAR POWER PLANT CONTROL ROOM TASKS, NUREG/CR-3309, US. Nuclear Regulatory Commission, Washington
- [3] Bell, J. B. und Swain, A. D. (1983): A PROCEDURE FOR CONDUCTING A HUMAN RELIABILITY ANALYSIS FOR NUCLEAR POWER PLANTS, NUREC/CR-2254, US. Nuclear Regulatory Commission, Washington
- [4] Bolte, U. (1991): DAS AKTIVE STELLTEIL - EIN ERGONOMISCHES BEDIENKONZEPT. Fortschritts-Berichte VDI, Reihe 17 Biotechnik, VDI-Verlag Düsseldorf
- [5] Brausers, K. (1992): ESAT (Experten-System für Aufgaben-Taxonomie). In H. Bubb (Hrsg.): MENSCHLICHE ZUVERLÄSSIGKEIT; DEFINITIONEN. ZUSAMMENHÄNGE, BEWERTUNG. Ecomed, Landsberg
- [6] Bubb, H. (1993): SYSTEMERGONOMIE. Teil 5 in Schmidtke, H. (Hrsg.): Ergonomie, Hanser, München, Wien
- [7] Comer, M. K., Seaver, D. A., Stillwell, W. G., Gaddy, O.O. (1984): GENERATING HUMAN RELIABILITY ESTIMATES USING EXPERT JUDGEMENT, Vol. 2; NUREG/OR-3588, US. Nuclear Regulatory Commission, Washington.
- [8] Dörfel, G. und Seifert, R. (1992): VERFAHREN ZUR ANALYSE UND BEWERTUNG DER MENSCHLICHE ZUVERLÄSSIGKEIT; METHODISCHER ÜBERBLICK. In H. Bubb (Hrsg.): Menschliche Zuverlässigkeit; Definitionen, Zusammenhänge, Bewertung. Ecomed, Landsberg
- [9] DRS (1979): Der Bundesminister für Forschung und Technologie (Hrsg.): DEUTSCHE RISIKOSTUDIE KERNKRAFTWERKE, Verlag TÜV Rheinland, Köln
- [10] Embrey, D. E.1(984): HUMAN RELIABILITY, Paper presented at the 1984 Summer School of the Indian Physical Society, Human Reliability Associated Ltd., Parabol, Lancashire
- [11] Hacker, W.(1987): FEHLHANDLUNGEN UND ARBEITSFEHLER. In Hacker, W. (Hrsg.): Arbeitspsychologie, Nr. 41. Verlag Hans Huber, Stuttgart
- [12] Hannamann, G.W. und Spurgin, A. 3. (1984): SYSTEMATIC HUMAN ACTION RELIABILITY PROCEDURE, (SHARP), ERPI NP-3583, Electric Power Research Institute, Palo Alto CA, June 1984
- [13] Holst, E. v. (1957): AKTIVE LEISTUNGEN DER MENSCHLICHEN GESICHTSWAHR-NEHMUNG. Studium Generale, 10, 4, 232
- [13] Lindsay, P. H. und Norman, D. A.(1972): HUMAN INFORMATION PROCESSING. AN INTRODUCTION TO PSYCHOLOGY. New York, London
- [14] Meister, D. (1971): COMPERATIVE ANALYSIS OF HUMAN RELIABILITY MODELS. AD 734 432, Human Factors Department, Bunker Ramo Corporation, California
- [15] Miller, G. A. et al. (1956): THE MAGICAL NUMBER SEVEN PLUS OR MINUS TWO: SOME LIMITS ON OUR CAPACITY FOR PROCESSING INFORMATION. In: Psychological Review 63, pp. 81 -97

- [16] Moray, N. (1990): DESIGNING FOR TRANSFORMATION SAFETY IN THE LIGHT OF PERCEPTION, ATTENTION, AND MENTAL MODELS. Ergonomics, Vol. 33, NCS 10/11, pp. 1201-1213
- [17] Mutschler, H. (1982): ERGONOMISCHE ASPEKTE DER SPRACHEINGABE IM WEHRTECHNISCHEN BEREICH. In Nixdorff, K. (Hrsg.): Anwendung der Akustik in der Wehrtechnik. Tagung in Mepp.en, 28.-30. Sept.
- [18] Swain, A.D. und Guttman, H.E. (1983): HANDBOOK OF HUMAN RELIABILITY ANALYSIS WITH EMPHASIS ON NUCLEAR POWER PLANT APPLICATIONS, NUREG/CR-1278, Scandia Laboratories, Albuquerque, NM 97185
- [19] Norman (1986): NEW VIEWS IN INFORMATION PROCESSING: IMPLICATIONS FOR INTELLIGENT DECISION SUPP.ORT SYSTEMS. In: Hollnagel, E., Manchini, G. and Woods, D.D. (Edts.): Intelligent decision support in process environmenmts, Springer, Berlin
- [20] O'Neill, B. (1977): A Decision-Theory Model of Danger Compensation. Acc. Anal. & Prev. Vol 9, 5. 157- 165
- [21] Rasmussen, J. (1987): THE DEFINITION OF HUMAN ERROR AND A TAXONOMY FOR TECHNICAL SYSTEM DESIGN. In: Rasmussen, J. et.al. (Hrsg.): New Technology and human Error. Wiley & Sons Ltd., New York
- [22] Rasmussen, J. (1981): MODELS OF MENTAL STRATEGIES IN PROCESS PLAN DIAGNOSIS. In Rasmussen, .J., Rouse, 6. (Edt.): Human detection and diagnosis of system failures (pp. 241 - 258), Plenum Press, New York
- [23] Rumar, K. (1990): THE BASIC DRIVER ERROR: LATE DETECTION Ergonomics. Vol 33, NOS 10/11,1281-1290
- [24] Schmidt, R. F. (1971): Physiologie kleiner Nervenverbände. In R.F. Schmidt (Hrsg.): Neurophysiologie. Berlin, Heidelberg, New York: Springer
- [25] Schmidtke, H. (1973): MENTALE BEANSPRUCHUNG. In Schmidtke (Hrsg.): Ergonomie 1: Grundlagen menschlicher Arbeit und Leistung. München, Wien: Hanser
- [26] Schmidtke, H. (1993): Der Leistungsbegriff in der Ergonomie. Kap 3.1 in Schmidtke, H. (Hrsg.): Ergonomie, Hanser, München, Wien
- [26] Seifert, R. (1978): PROBLEME DER TEILAUTOMATISIEMNG BEI DER ENTWICKIUNG VON MENSCH-MASCHINE SYSTEMEN. Lehrgangreihe Flugtechnik; Lehrgang OF 9,01, Anthropotechnik der Carl-Cranz-Gesellschaft
- [28] Spanner, B. (1993): EINFLUß DER KOMPATIBILITÄT VON STELLTEILEN AUF DIE MENSCHLICHE ZUVERLÄSSIGKEIT. Fortschritts-Berichte VDI, Reihe 17 Biotechnik', VOß-Verlag Düsseldorf
- [29] Swain, A. D. (1987): ACCIDENT SEQUENCE EVALUATION PROGRAM HUMAN RELIABILITY ANALYSIS PROCEDURE, NUREG/CR-4772, US. Nuclear Regulatory Commision, Washington
- [30] Swain, A. D. (1989): Human Reliability Analysis, Course Material of Training Course; held at Gesellschaft für Reaktorsicherheit, Garching
- [31] Swain, A. D. (1980): THE HUMAN ELEMENT IN SYSTEM SAFETY: A GUIDE FOR MODEM MANAGEMENT. Albuquerque: A. D, Swain
- [32] Weston, L M., Whitehead, D. W., Graves, N. L. (1987): RECOVERY ACTIONS IN PRA FOR RISK METHODS INTEGRATION AND EVALUATION PROGRAM, Vol. 1, Development of a Data Based Method, US. Nuclear Regulatory Commission, Washington.

- [33] Wilde, G. J. S. (1982): THE THEORY OF RISK HOMEOSTASIS: IMPLICATIONS FOR SAFETY AND HEALTH. Risk Analysis 2,2, pp. 209.
- [34] Zimolong, O. (1988): ZUVERLÄSSIGKEIT UND FEHLER IN ARBEITSSYSTEMEN, Bochumer Berichte zur Angewandten Psychologie, Nr. 5, Ruhr-Universität Bochum.