

LETEch ID	Title	Category	Authors	Reference	Meeting	Date
LET0001	Programme Planning with Logic Trees	Possibility Tree	T. F. Bott and S. W. Eisenhower	International Journal of Quality and Reliability Management, Vol. 6, 1989, pp. 14-24.		1989
LET0002	Hazards analysis of a nuclear explosives dismantlement	Probablistic Risk Analysis	Bott, T. F.; Eisenhower, S. W.	American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP; 1995; v.320, p.177-184	1995 ASME Annual Meeting, San Francisco	1995
LET0003	Detonation probabilities of high explosives	Probablistic Risk Analysis	Eisenhower, S. W.; Bott, T. F.; Bement, Thomas R.	American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP; 1995; v.320, p.185-192	1995 ASME Annual Meeting, San Francisco	1995
LET0004	Use of hazard assessments to achieve risk reduction in the USDOE stockpile stewardship (SS-21) program	Hazard Assessment	Fischer, S., Konkel, H. Bott, T., Eisenhower, S., DeYoung, L., Hockert, J.	American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP; 1995; v.320, p.257-265	1995 ASME Annual Meeting, San Francisco	1995
LET0005	Accident reconstruction using process trees	Possibility Tree	S. W. Eisenhower, and T. F. Bott		1995 ASME Annual Meeting, San Francisco	1995
LET0006	A discussion of the use of hazards assessment and probabilistic safety analysis techniques for nuclear explosive operations	Probablistic Risk Analysis	Bott, T.F.; Fischer, S.; Eisenhower, S.W.		International topical meeting on probabilistic safety assessment - moving toward risk based regulation (29 Sep - 3 Oct 1996: Park City, UT (United States))	1996
LET0007	Initiating-event frequencies for nuclear weapons dismantlement hazard analysis	Probablistic Risk Analysis	Eisenhower, S.W.; Bott, T.F.		International topical meeting on probabilistic safety assessment - moving toward risk based regulation (29 Sep - 3 Oct 1996: Park City, UT (United States))	1996
LET0008	Probabilistic Modeling of Propagating Explosions	Probablistic Risk Analysis	L. B. Luck, S. W. Eisenhower and T. F. Bott		International Conference on Probabilistic Safety Assessment and Management, Crete, Greece, June, 1996.	1996

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LET0009	Analysis of Propagating Explosions	Probabilistic Risk Analysis	L. B. Luck, T. F. Bott and S. W. Eisenhower		System Safety Conference, Albuquerque, August, 1996.	1996
LET0010	Communicating Risk Concepts to Subject Experts	General Risk Analysis	T. F. Bott and S. W. Eisenhower		Society for Risk Analysis Annual Meeting, Orlando, December, 1996.	1996
LET0011	Probabilistic analysis of accidents involving pyrophoric particle accumulation in a closed system containing high explosives	Probabilistic Risk Analysis	Bott, T. F. and Eisenhower, S. W.	Safety Engineering and Risk Analysis Division, ASME; 1997; v.7, p.11-15		1997
LET0012	An Approximate Reasoning-Based Method for Screening High-Level-Waste Tanks for Flammable Gas	Approximate Reasoning	S. W. Eisenhower, T. F. Bott and R. E. Smith	See LET0019 below, the Journal Paper version of this paper.	Waste Management Symposium, Tucson February 1998	1998
LET0013	Uncertainty and Approximate Reasoning in Waste Pretreatment Planning	Approximate Reasoning	S. F. Agnew, S. W. Eisenhower and T. F. Bott		International Topical Meeting on Nuclear and Hazardous Waste Management, Denver, September, 1998.	1998
LET0014	Including Uncertainty in Hazard Analysis Through Fuzzy Measures	Approximate Reasoning	T. F. Bott and S. W. Eisenhower		ASME-PVP Annual Meeting, San Diego, 1998.	1998
LET0015	System reliability assessment with an approximate reasoning model	Approximate Reasoning	S. W. Eisenhower, T. F. Bott, T. M. Helm, S. T. Boerigter	Proc. AIChE International Conference and Workshop on Reliability and Risk Management, 1998 Sept, pp 521-543.	AIChE International Conference and Workshop on Reliability and Risk Management, Sept 1998 , Houston	1998
LET0016	Representing the Possibility of Extreme Events	General Uncertainty	S. W. Eisenhower and T. F. Bott		Society for Risk Analysis Annual Meeting, Phoenix, December, 1998	1998
LET0017	Evaluation of High-Level Waste Pretreatment Process with an Approximate Reasoning Model	Approximate Reasoning	T. F. Bott, S. W. Eisenhower and S. F. Agnew		IEEE Waste Management Symposium, February 1999	1999

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LET0018	Application of Approximate Reasoning to Safety Analysis	Approximate Reasoning	S. W. Eisenhower and T. F. Bott	Proc. International System Safety Conference, 1999 Aug, pp 374-382.	International Systems Safety Conference, Orlando, Aug 1999	1999
LET0019	An Approximate Reasoning-Based Method for Screening High-Level-Waste Tanks for Flammable Gas	Approximate Reasoning	S. W. Eisenhower, T. F. Bott and R. E. Smith	Nuclear Technology, Vol. 130, 2000 Jun, pp 351-361.		2000
LET0020	An Approach to Assessing the Need for High Explosives Replacement in Aging Nuclear Weapons	LED Analysis Model	T. F. Bott and S. W. Eisenhower		27th International Pyrotechnics Seminar, Grand Junction, July, 2000.	2000
LET0021	Logic Model Representations of Thermal Cook-off Processes	Possibility Tree	S. W. Eisenhower and T. F. Bott		Thermal Response Workshop 2001, Santa Fe, November, 2001.	2001
LET0022	Risk Analysis Using a Hybrid Bayesian-Approximate Reasoning Approach	LED Analysis Model	T. F. Bott and S. W. Eisenhower	Proc. IEEE International Symposium on Product Quality and Integrity, January 2002.	IEEE International Symposium on Reliability and Maintenance, Seattle, Jan 2000	2002
LET0023	Prioritizing the Purchase of Spare Parts Using an Approximate Reasoning Model		S. W. Eisenhower, T. F. Bott, J. W. Jackson	Proc. IEEE International Symposium on Product Quality and Integrity, January 2002.	IEEE International Symposium on Reliability and Maintenance, Seattle, Jan 2001	2002
LET0024	Evaluating Complex Systems when Numerical Information is Sparse	LED Analysis Model	T. F. Bott and S. W. Eisenhower		World Automation Conference, Orlando, June, 2002.	2002
LET0025	The Approximate Reasoning (AR) Based Method for Information Loss Path Analysis	LED Analysis Model	K. B. Christiansen, T. F. Bott, J. L. Darby and S. W. Eisenhower		Institute for Nuclear Materials Management Annual Meeting, Orlando, June, 2002.	2002
LET0026	A Logic Model Approach to the Conceptual Design of a Scientific/Industrial Complex	LED Analysis Model	T. F. Bott and S. W. Eisenhower	ASME-PVP Annual Meeting, Vancouver, 2002, PVP-444, pp 119-127.	ASME-PVP Annual Meeting, Vancouver, Aug 2002	2002

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LET0027	Analysis of Lightning-related Risk in Outdoor High Explosive Research	Probabilistic Risk Analysis	S. W. Eisenhower and T. F. Bott	Proc. 17th International Lightning Detection Conference, Tucson, October, 2003.	International Lightning Detection Conference, Tucson, October, 2003.	2003
LET0028	Importance Ranking of Survivability Issues in an Aging System	Approximate Reasoning	T. F. Bott and S. W. Eisenhower		14th TARDEC Ground Vehicle Survivability Symposium, Monterey, April, 2003.	2003
LET0029	Assessing the Risk of Nuclear Terrorism Using Logic Evolved Decision Analysis	LED Analysis Model	S. W. Eisenhower, T. F. Bott, D. V. Rao		2003 American Nuclear Society Annual Meeting, San Diego, June, 2003.	2003
LET0030	A Risk-based Approach to Designing Effective Security Force Training Exercises	LED Analysis Model	T. F. Bott and S. W. Eisenhower		Institute for Nuclear Materials Management Annual Meeting, Phoenix, July, 2003.	2003
LET0031	A New Graphical Tool for Building Logic-Gate Trees	LED Tools	T. F. Bott, S. W. Eisenhower, J. Kingson and B. P. Key		ASME-PVP Annual Meeting, Cleveland, Aug. 2003.	2003
LET0032	A Logic Model for Cook-off in High Explosives	Possibility Tree	S. W. Eisenhower and T. F. Bott, L. B. Luck, J. Kingson, B. Key		21st International System Safety Conference, Ottawa, Aug. 2003.	2003
LET0033	A Probabilistic Analysis of the Risk Posed by Lightning during Dual-Axis Radiographic Hydrodynamics Test Facility High-Explosives Operations	Probabilistic Risk Analysis	T. F. Bott and S. W. Eisenhower	Los Alamos National Laboratory Report, January, 2004.		2004
LET0034	Representing Subjective Knowledge in Engineering Systems Using Possibility Trees	General Uncertainty	S. Donald, T. F. Bott, and S. W. Eisenhower		8th World Multi-Conference on Systemics, Cybernetics, and Informatics, Orlando, Florida, July 18-21, 2004	2004
LET0035	Risk-Based Prioritization of Research for Aviation Security Using Logic-Evolved Decision Models	LED Analysis Model	S. W. Eisenhower, T. F. Bott, J. R. Foggia, F. P. Jones, and M. R. Sorokach		International System Safety Conference, Providence, Rhode Island, August 1-5, 2004	2004

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LET0036	Resource Allocation Using Risk Analysis	LED Analysis Model	T. F. Bott and S. W. Eisenhower		The Annual Reliability and Maintainability Symposium, Los Angeles, California, January 26-29, 2004,	2004
LET0037	Development of Optimal Lightning Warning Procedures Using Probabilistic Risk Analysis	Probabilistic Risk Analysis	T. F. Bott and S. W. Eisenhower		American Meteorological Society Annual Meeting, San Diego, January 2005	2005
LET0038	Systematic Creation of Bayesian Belief Networks: Relationship with Logic-Evolved Decision Tools	Possibility Tree	Kathlene W. Lechner, James T. Luxhøj, S. W. Eisenhower		2nd International Engineering Research Conference, Orlando, May 2006	2006
LET0039	Using Approximate Reasoning to Understand Complex Quantitative Models	Approximate Reasoning	S. W. Eisenhower and B. P. Key		9th World Multi-Conference on Systemics, Cybernetics, and Informatics, Orlando, Florida, July, 2005	2005
LET0040	Development of Terrorist Attack Scenarios Against The Air Transportation System	Possibility Tree	M. Sorokach, S. Brown, K. Fisher, F. Jones, T. Bott, S. Eisenhower, J. Foggia and J. Santos		Risk Symposium 2007, Santa Fe, March 2007	2007
LET0041	On the Role of Adversary Intent Models in Assessing Terrorist Risk: A Numerical Study		B. P. Key, S. W. Eisenhower, P. Sadasivan, T. F. Bott		Risk Symposium 2007, Santa Fe, March 2007	2007
LET0042	Analysis of Defensive Architectures to Reduce Terrorist Risk Using Logic Gate Trees	LED Analysis Model	S. Eisenhower, B. Key, T. Wehner, S DeMuth, T. Bott, P. Sadasivan, S. Donald		Risk Symposium 2007, Santa Fe, March 2007	2007
LET0043	Development of Quantitative Utility Models for Adversary Intent Using Approximate Reasoning	Approximate Reasoning	S. W. Eisenhower, B. P. Key, P. Sadasivan		Risk Symposium 2007, Santa Fe, March 2007	2007
LET0044	Using Approximate Reasoning To Evaluate Terrorist Intent	Approximate Reasoning	S.W. Eisenhower, G. Ackerman, T.F. Bott and M.K. Binder		Institute for Operations Research and Management Sciences Annual Meeting, Pittsburgh, November 2006	2006

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LET0045	Analysis of Operational Data from the Lightning Detection and Warning System at Los Alamos National Laboratory	Probabilistic Risk Analysis	S. W. Eisenhower, T. F. Bott, C. R. Odom and W. H. Beaseley		American Meteorological Society Annual Meeting, San Diego, January 2005	2005
LET0046	Risk Assessment When Malevolent Actions Are Involved	LED Analysis Model	T. F. Bott and S. W. Eisenhower		Annual Reliability and Maintainability Symposium, Los Angeles, California, January 2006	2006
LET0047	A Structured Approach to Resource Allocation		T. F. Bott and S. W. Eisenhower		ASME-PVP Annual Meeting, La Jolla Aug. 2004.	2004
LET0048	A Safety Analysis of Warhead Balancing	LED Analysis Model	T. F. Bott			
LET0049	A Human Reliability Analysis of a Nuclear Explosives Dismantlement	Probabilistic Risk Analysis	Bott, T. F.	American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP; 1995; v.320,	1995 ASME Annual Meeting, San Francisco	1995
LET0050	Rapid Risk-based Evaluation of Competing Conceptual Designs	Approximate Reasoning	Bott, T. F. and J.M. Butner		Topical Meeting on Probabilistic Safety Assessment - PSA '99, Washington	1999
LET0051	An Approach to Evaluating the Effectiveness of Safety Controls	Approximate Reasoning	T. F. Bott		ASME-PVP Annual Meeting, Boston Aug. 1998.	1998
LET0052	Evaluating Complex Systems When Numerical Data Is Sparse	General Risk Analysis	T. F. Bott and S. W. Eisenhower			2002
LET0053	Evaluating the Risk of Industrial Sabotage		T. F. Bott			1999
LET0054	Methodology for optimizing allocation of resources to protect infrastructure against acts of terrorism	General Risk Analysis	Darby, John L. Bott, T. F. (Terrence F.) Bush, B. W. (Brian W.) Eisenhower, S. W. (Stephen W.)	Los Alamos National Laboratory Report, LA-UR-04-0590, 2004		2004
LET0055	Risk-Benefit Analysis of High Explosives Operations Using Approximate Reasoning Techniques	Approximate Reasoning	T. F. Bott and S. W. Eisenhower		NATO Insensitive Munitions Workshop, Nov 2000, Ottawa	

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LET0056	A Comparison of Risk Estimates Using Different Information Measures	General Uncertainty	G. Chavez, B. Key, S. Eisenhower, T. Bott, S. Donald, F. Lowe		Risk Symposium 2006, Santa Fe, March 2006	2006
LET0057	A Risk-Based Approach to Designing Effective Security Force	Approximate Reasoning	T. F. Bott and S. W. Eisenhower		International Nuclear Materials Management Annual Mtg, July 2003, Phoenix	2003
LET0058	The Role of Concepts of Operation Studies in Assessing Terrorist Risk	Possibility Tree	J. Foggia, S. Eisenhower, T. Bott, M. Sorokach, K. Fisher and S. Brown		Risk Symposium 2006, Santa Fe, March 2006	2006
LET0059	Uncertainty Methods: Response of PBXs to Low Energy Insults	General Uncertainty	S. W. Eisenhower and T. F. Bott		DOE Mtg on High Explosives Lawrence Livermore National Laboratory, Aug 2000	2000
LET0060	Architectures to Reduce Terrorist Risk Using Logic Gate Trees					
LET0061	Architectures to Reduce Terrorist Risk Using Logic Gate Trees	Probabilistic risk, Systems Analysis	Stephen Eisenhower, Brian Key and Pratap Sadasivan	Los Alamos National Laboratory Report, LA-UR-07-1884, 2007	Risk Symposium 2006, Santa Fe, March 2007	
LET0062	The Role of Risk Analysis in the Development of Advanced Systems	Probabilistic risk, Systems Analysis	Steve Eisenhower, Terry Bott and John Foggia		Risk Symposium 2006, Santa Fe, March 2008	
LET0063	Safety Analysis of Airborne Merging and Spacing Concepts	Probabilistic risk, Systems Analysis	Steve Eisenhower, Terry Bott and John Foggia		NASA Air Space Technical Interchange Mtg, Austin, March 2008	
LET0064	Safety Evaluation of Airborne Precision Spacing Concepts Using Logic Evolved Decision Analysis	Probabilistic risk, Systems Analysis	S. Eisenhower, T. Bott J. Foggia, M. Sorokach and S. brown		INFORMS Annual Meeting, Washington, October 2008.	