Referencias

Abrams, D.P., Shinozuka, M. (Eds.) (1997): "Loss Assessment of Memphis Buildings". *Technical Report NCEER-97-0018*, National Center for Earthquake Engineering Research, State University of New York at Buffalo

Adams, J. (1995): *Risk*, London, UCL Press.

Aguiar, R., Barbat, A.H. (1997): "Método para el Cálculo del Índice Global de Daño para Edificios de Hormigón Armado Sometidos a Acciones Sísmicas". *Revista Internacional de Ingeniería de Estructuras*. **2** No.1, Quito.

Akiyama, H (1985): *Earthquake-Resistant Limit-State Design for Buildings*. Tokio.

Akiyama, H., Kitamura, H. (1992): "Design Energy Spectra for Specific Ground Conditions" . *International Workshop on Recent Developments in Base Isolation Techniques for Buildings*, Tokio.

Aktan, A E., Ho, I.K (1990). "Seismic Vulnerability Evaluation of Existing Buildings", *Earthquake Spectra*, **6(3)**.

Alexander,D., (1993): *Natural Disasters*, Chapman and Hall, New York.

Algermissen, S T y Steinbrugge, K.V. (1984) "Hazard and Risk Assessment. Some Case Studies", *The Geneva Papers on Risk and Insurance*, 9-30

Anderson M.B , Woodrow P.J. (1989). *Rising from the Ashes. Development strategies in times of disaster*, Boulder, Westview Press.

Anderson, P W (1972). "More is Different: Broken Symmetry and the Nature of the Hierarchical Structure of Science". *Science* 177:393-96.

Ang A. H-S., Kim S.B. (1993). "Damage Estimation of Existing Bridge Structures, Structural Engineering" en *Natural Hazards Mitigation: Proc ASCE Structures Congress*, Irvine CA, Vol 2, 1137-1142.

Atkins, J P, S Maiz, C D Easter. (2000): "A Commonwealth Vulnerability Index for Developing Countries: The Position of Small States". *Commonwealth Economic Paper Series 40*, Commonwealth Secretariat, London.

Ayala, G., Xianguo, Y. (1995): "Analytical Evaluation of the Structural Seismic Damage of Reinforced Concretes Frames", *Procedings of Seventh Canadian Conference on Earthquake Engineering*, Montreal.

Aysan,Y. (1993): "Vulnerability Assessment", *Natural Disasters: Protecting vulnerable communities*, Marriman P.A., Browitt, C.W, (Ed). IDNDR, Thomas Telford, London

Bankoff, G. (2001):"Rendering the World Unsafe: 'Vulnerability' as Western Discourse", *Disaster*, 25(1): 19-35, Overseas Development Institute, Blackwell Publishers, Oxford.

Barbat, A. H., Yepez, F., Canas, J. A. (1996): "Damage Scenario Simulation for Risk Assessment in Urban Zones", *Earthquake Spectra*, **12**, 371-394.

Barbat, A H (1998): *El riesgo Sísmico en el Diseño de Edificios*, Calidad Siderurgica, Cuadernos Técnicos, **4**, Madrid.

Barrow, J.D. (1994): *Teorías del Todo*, Drakontos, Editorial Crítica, Barcelona.

Bendimerad, F (1999): *"Risk Management Solutions"*, Menlo Park, comunicación personal.

Benson, C. (2001): *Macroeconomics Concepts of Vulnerability:Dynamics, Complexity and Public Policy*, International Work-Conference on Vulnerability in Disaster Theory and Practice, University of Wagenisngen, Netherlands.

Bertero, V. (1997): "Rehabilitación Sísmica de Edificios Existentes", *Terremoto de Caracas 30 Años Después*, Caracas.

Bertero V. V., Anderson J.C., Krawinkler H., Miranda E (1991): *Design Guidelines for Ductility and Drift Limits*, Report No. UCB/EERC-91-15, CUREe and Kajima Research Teams.

Bertero V , Bertero R. (1993). "Tall Reinforced Concrete Frame Buildings Conceptual Earthquake Resistant Design Methodology", *VIII Seminario Latino-americano de Ingeniería Sismo-resistente*, Julio, Mérida, Venezuela.

Bhaskar, R. (1989): *The Possibility of Naturalim: A Philosophical Critique of the Contemporary Human Sciencies*. New York. Harvester Wheatsheaf.

Bohm, D. (1980): *Wholeness and Implicate Order*, Londres.

Borda, M (1999): "Resiliencia. Competencia para Enfrentar la Adversidad" *Revista de la División de Ciencias*, Vol. **14** Universidad del Norte, Barranquilla.

Blaikie, P., Cannon, T , Davis, I., Wisner, B. (1996). *Vulnerabilidad, el Entorno Social de los Desastres*, Red de Estudios Sociales en Prevención de Desastres en América Latina, La RED, ITDG, Bogotá

Blanco-Alarcón A. (Ed.) (1989): *Gestión Ambiental para el Desarrollo*, compilación de artículos, Sociedad Colombiana de Ecología, Intercor, Editora Guadalupe, Bogotá.

Blockley, D. (Ed) (1992). *Engineering Safety*, MacGraw-Hill International Series in Civil Engineering, London.

Bracci, J.M , Reinhorn, A.M , Mander, J B., y Kunnath, S.K. (1989): "Deterministic Model for Seismic Damage Evaluation of Reinforced Concrete Structures" *Technical Report NCEER-89-0033*, State University of New York at Buffalo.

Briguglio, L (1992): *Preliminary Study on the Construction of an Index for Ranking Countries According to their Economic Vulnerability*, UNCTAD/LDC/Misc.4. Geneva.

Briguglio, L. (1995): *Small Island Developing States and Their Economic Vulnerabilities*, http://www.geic or jp/docs/lino.html

Brumbaugh, D.S. (1999): *Earthquakes. Science and Society*, Prentice Hall, New Jersey.

Burby R.J. (Ed.) (1998).*Cooperating with Nature Confronting Natural Hazards with Land-Use Planning for Sustainable Communities*, Joseph Henry Press, Washington.

Burton, I. (1962): Types of Agricultural Occupance of Flood Plains in the United States, University of Chicago, Department of Geography Research Paper **121**.

Burton, I., Kates, R.W., White, G.F. (1968): "The Human Ecology of Extreme Geophysical Events", *Natural Hazard Research,* Working Paper **1**, Department of Geography, University of Toronto.

Burton, I., Kates, R.W., White, G.F. (1978): *The Environment as Hazard*, New York, Oxford University Press.

Cannon, T. (1991): "A Hazard Need not a Disaster make: Rural Vulnerability, Flood, and the Causes of Natural Disasters", *Hazard 91 Conference*, Perugia, Italy.

Cannon, T. (1994): "Vulnerability Analysis and the Explanation of Natural Hazards, en Varley, Ann, *Disasters Development and Environment*, Wiley, Chichester.

Cannon, T.(2001): *Vulnerability Analysis and Disasters*, International Work-Conference on Vulnerability in Disaster Theory and Practice, Univesity of Wageningen, Netherlands.

Cardona, O.D. (1985): *Hazard, Vulnerability and Risk Assessment*, unedited working paper, Institute of Earthquake Engineering and Engeneering Seismology IZIIS, Skopje, Yugoslavia.

Cardona, O.D. (1986a): "Estudios de Vulnerabilidad y Evaluación del Riesgo Sísmico: Planificación Física y Urbana en Áreas Propensas ", *Asociación Colombiana de Ingeniería Sísmica, Boletín Técnico AIS No.* **33**, Bogotá.

Cardona, O.D. (1986b): "Enfoque Metodológico para la Evaluación de la Amenaza, Vulnerabilidad y Riesgo Sísmico", *Memorias del Seminario Nacional Sobre Prevención y Manejo de Catástrofes Naturales*, Asociación de Ingenieros Estructurales, Medellín.

Cardona, O.D. (1990): *Terminología de Uso Común en Manejo de Riesgos*, AGID Reporte No. **13**, EAFIT, Medellín, actualizado y reimpreso en *Ciudades en Riesgo*, M.A. Fernández (Ed.), La RED, USAID, 1996.

Cardona O.D. (1991): 'Metodología para la Evaluación de la Vulnerabilidad Sísmica de Edificaciones y Centros Urbanos", *VII Seminario Latinoamericano de Ingeniería Sismo-Resistente - IX Jornadas Estructurales*, SCI/AIS/MOPT, Bogotá.

Cardona O.D. (1993a): 'Evaluación de la Amenaza, la Vulnerabilidad y el Riesgo", *En los Desastres No son Naturales*, A. Maskrey (Compilador), LA RED, Tercer Mundo Editores, Bogotá, Colombia.

Cardona O.D. (1993b): *Mitigación de Desastres en las Instalaciones de la Salud*, Serie de 4 Volúmenes, Organización Panamericana de la Salud, Washigton.

Cardona, O.D. (1993c): "Natural Disasters, Global Change and Sustainable Development: A Strategy for Reducing Effects", *III Meeting of the Scientific Advisory Council for the International Geophere-Biosphere Programme, Forum on Earth System Research, ICSU*, Ensenada, Baja California, México.

Cardona O.D. (1993d): "Reducción de la Vulnerabilidad Sísmica de Líneas Vitales", Seminario Internacional *Prevención y Reducción de* Riesgos *en Sistemas de Acueducto y Alcantarillado*, Cali, Colombia.

Cardona O.D. (1994): "Prevención de Desastres y Participación Ciudadana", *Viviendo en riesgo: comunidades vulnerables y prevención de desastres en América Latina*, Allan Lavell (Ed.), LA RED, Tercer Mundo Editores, Bogotá.

Cardona, O.D. (1995): *Prevención de Desastres y Preparativos para Emergencias: Aspectos Técnico-científicos, Sociales, Culturales e Institucionales*, Centro de Estudios sobre Desastres y Riesgos Naturales CEDERI, Universidad de los Andes, Bogotá.

Cardona O.D. (1996a): "Manejo Ambiental y Prevención de Desastres: Dos Temas Asociados", *Ciudades en Riesgo*, M. A. Fernández (Ed.), La RED, USAID, reimpresión como *Cities at Risk*, A/H Editores, 1999.

Cardona O.D. (1996b): "Manejo de la Crisis Volcánica del Galeras" / "Variables Involucradas en el Manejo de Riesgos", *Desastres & Sociedad*, No. 6, Red de Estudios Sociales en Prevención de Desastres en América Latina, Tarea Gráfica, Lima.

Cardona O.D. (1996c): "Sistema Nacional para la Prevención y Atención de Desastres", *Estado, Sociedad y Gestión de los Desastres en América Latina*, Red de Estudios Sociales en Prevención de Desastres en América Latina, Tercer Mundo Editores, Bogotá.

Cardona, O.D. (1996d): "Vulnerability Reduction: A Purpose for Sustainable Development, Holistic Approach for Risk Mitigation and Disaster Preparedness", *Proceedings of Pan Pacific Hazards'96*,CD-ROM, Conference on Natural Disaster Reduction, Vancouver, Canada.

Cardona, O.D. (1997): 'Management of the Volcanic Crises of Galeras Volcano: Social, Economic and Institutional Aspects", *Journal of Volcanology and Geothermal Research*, 1698, Elsevier, London.

Cardona, O.D. (1999a): "Environmental Management and Disaster Prevention: Two Related Topics - A Holistic Risk Assessment and Management Approach", *Natural Disaster Management*, Ingleton J. (Ed.) IDNDR, Tudor Rose, IDNDR, London, UK.

Cardona, O.D. (1999b): *Vulnerabilidad Sísmica de Hospitales: Fundamentos para Ingenieros y Arquitectos*, Monografías de Ingeniería Sísmica, **IS-32**, CIMNE, Barcelona.

Cardona, O.D. (2000): "The January 25th 1999 Earthquake in the Coffee Growing Region of Colombia: Damage Description in the Area and Emergency Response", *Proceedings of the 12WCCEE*, Auckland, New Zealand.

Cardona, O.D. (2001): "Holistic Approach to Seismic Risk Estimation" *Natural Harzards Review*, in process of publishing, ASCE, Washigton D.C.

Cardona, O.D., Barbat, A.H. (2000a): *El Riesgo Sísmico y su Prevención*, Cuaderno Técnico 5, Calidad Siderúrgica, Madrid.

Cardona, O.D., Barbat, A.H. (2000b): 'El Riesgo Sísmico de Estructuras" en *Estructuras Sometidas a Acciones Dinámicas* Car, E., López Almansa, F. & Oller, S. (Eds.), CIMNE, Barcelona.

Cardona O.D. y Hurtado J.E. (1992): "Análisis de Vulnerabilidad Sísmica de Estructuras de Concreto Reforzado", *III Reunión del Concreto*, Cartagena.

Cardona O.D. y Hurtado J.E. (1995): "Seismic Urban Vulnerability Assessment in Terms of Energy Absortion Capacity and Demand". *EERI, Fifth International Conference on Seismic Zonation*, Nice, France.

Cardona O.D. y Hurtado J.E. (1996): "Vulnerabilidad de Edificaciones Indispensables: Análisis, Diseño y Evaluación de Hospitales", *Seminario de Vulnerabilidad Sísmica*, Universidad de los Andes, Bogotá.

Cardona, O.D., Hurtado J.E. (2000a): "Holistic Approach for Urban Seismic Risk Evaluation and Management", *Proceedings of Sixth International Conference on Seismic Zonation*, EERI, November 2000, Palms Springs, California.

Cardona, O.D., Hurtado J.E. (2000b): "Holistic Seismic Risk Estimation of a Metropolitan Center" *Proceedings of 12th World Conference of Earthquake Engineering*, January-February 2000, Auckland, New Zeland.

Cardona, O.D., Hurtado J.E. (2000c): "Modelación Numérica para la Estimación Holística del Riesgo Sísmico Urbano, Considerando Variables Técnicas, Sociales y Económicas" *Métodos Numéricos en Ciencias Sociales (MENCIS 2000)*, Oñate, E. *et al.* (Eds.) CIMNE-UPC, Barcelona.

Cardona O.D., Meyer, H. (1991): "Integrated Urban Seismic Risk Mitigation Project - Its Coordination and Management in Cali, Colombia", *Fourth International Conference on Seismic Zonation*, EERI, San Francisco.

Cardona O.D., Sarmiento-Prieto J. P. (1988): *Análisis de Vulnerabilidad y Evaluación del Riesgo para la Salud de una Población en Caso de Desastre*, Plan de Atención Hospitalaria, Ministerio de Salud de Colombia, Bogota.

Cardona O.D., Yamín L.E. (1997): "Seismic Microzonation and Estimation of Earthquake Loss Scenarios: Integrated Risk Mitigation Project of Bogotá, Colombia", *Earthquake Spectra*, **13(4)**.

Carreras, A., Escorihuela, J.L., Requejo A. (Eds.) (1990): *Azar, Caos e Indeterminismo*, Seminario Interdisciplinar 1988, Universidad de Zaragoza.

Chambers, R. (1989): *Vulnerability, Coping and Policy*, IDS Bulletin No. **20**, Institute of Development Studies, Sussex

Chapman, O.J.V., Crossland, A.D. (1995): "Neural Network in Probabilistic Structural Mechanics", *Probabilistic Structural Engineering Handbook. Theory and Industrial Applications*, Sundararajan, C. (Ed.). Chapman and Hall, New York.

Clark M., Herington J. (1989): *The Role of Environmental Impact Assessment in the Planning Process*, London, New York: Mansell Publishing Limited.

Clarke J. I., Curson, P., Kayastha, S.L., Prithvish, N. (Eds.) (1989): *Population and Disaster*, Basil Blackweell in association with International Geographical Union, The Institute of British Geographers, London.

Coburn, A., Spence, R. (1992): *Earthquake Protection*, John Wiley & Sons, New York.

Cohen J., Stewart, I. (1994): *The Collapse of Chaos*, Penguin Books, New York.

Comfort, L.K. (1999): *Shared Risk: Complex Systems in Seismic Response*, Pergamon, New York.

Comfort, L.K., Wisner, B., Cutter, S., Pulwarky, R., Hewitt, K., Oliver-Smith, A., Wiener, J., Fordham, M., Peacock, W., Krimgold, F. (1999): "Reframing Disaster Policy: The Global Evolution of Vulnerable Communities", *Environmental Harzards*, **1(1)** 39-44, June, Pergamon, Elsevier.

Cornell, C.A. (1967): *Engineering Seismic Risk Analysis*, Research Report R 67-75, MIT, Boston.

Cornell, C.A. (1969): "Structural Safety Specification Based on Second-Moment Reliability", *Proc. Symposium of the International Association of Bridge and Structural Engineers*, London.

Cornell, C.A., Vanmarke, E.H. (1969):"The Mayor Influences on Seismic Risk", *Proceedings 3rd WCEE*, Santiago.

Corral, S. (2000): "Explorando la Calidad de los Procesos de Elaboración de Políticas Ambientales" *Métodos Numéricos en Ciencias Sociales (MENCIS 2000)*, Oñate, E. *et al.* (Eds.) CIMNE-UPC, Barcelona.

Corsanego A. (1985): "A Review of Methodologies for Seismic Vulnerability Assessment", *International Conference on Reconstruction, Restauration and Urban Planning of Towns and Regions in Seismic Prone Areas*, November, Skopje, Yugoeslavia.

Covello V.T., Mumpower J. (1985): "Risk Analysis and Risk Management: An Historical Perspective", *Risk Analysis*, Society for Risk Analysis, Volume 5 (2), pp 103-20

Cuny, F. C. (1984): *Disaster and Development*, New York: Oxford University Press.

Cutter, S.L. (Ed.) (1994): *Environmental Risks and Hazards*, Prentice Hall, New Jersey.

Davidson, R. (1997): *An Urban Earthquake Disaster Risk Index*, The John A. Blume Earthquake Engineering Center, Department of Civil Engineering, Stanford University, Report No. **121**, Stanford.

Davis, I., Wall, M. (Eds.) (1992): *Christian perspectives on disaster management*, IRDA, Middlesex, UK.

Dendrinos, D.S. (1999): "Cities as Spatial Chaotic Attractor" In *Chaos theory in the social sciencies*, Douglas, K. Elliot, E., (Eds.), The University of Michigan Press.

Dewey, J. (1929): "The Quest for Certainty", en J. Boydston (Ed.), *The Later Works*: 1925-1953, Carbondale, Southern Illinois University Press.

Dodrecht, D., Reidel, A., Munn R.E., (1988): "Environment Prospects for the Next Century: Implications for Long-term Policy and Research Strategies", *Technological Forecasting and Social Change*, IIASA, Austria.

Douglas, M. (1985): *Risk Acceptability According to the Social Sciences*, Routledge & Kegan Paul, London.

Drabek, T. E. (1986): *Human Systems Response to Disasters*, New York, Springer Verlag.

Duque, G. (1990): *Desarrollo Sostenido en la Prospectiva de la Problemática Ambiental y la Supervivencia*, Sociedad de Mejoras Públicas de Manizales, Colombia.

Dynes, R.R., Drabek, T.E. (1994): The Structure of Disaster Research: Its Policy and Disciplinary Implications. *International Journal of Mass Emergencies and Disasters* 12 :5-23.

Elms, D.G. (1992): "Risk Assessment", en *Engineering Safety*, D. Blockley, (Ed.), MacGraw-Hill International Series in Civil Engineering, 28-46, London.

Elms, D.G. (Ed.) (1998): *Owing the Future: Integrated Risk Management*. Centre of Advanced Engineering, University of Canterbury Christchurch, New Zealand.

Erdik, M., Alpay Biro, Y., Onur, T., Sesetyan, K. Birgoren, G. (1999): *Assessment of Earthquake Hazard in Turkey and Neighboring Regions*, Bogazici University, Kandilli Observatory and Earthquake Research Institute, Istanbul. http://www.koeri.boun.edu.tr/earthqk/earthquake.htm

Escallón, J., Alarcón, A. (1999): "The January 25th 1999 Earthquake in the Coffee Growing Region of Colombia: Tectonic and Seismological Aspect", *12th WCEE, Auckland*, New Zealand.

Faifar, O. y Gaspersic, P. (1996): "The N2 Method for the Seismic Damage Analysis of RC buildings", *Earthquake Engineering and Structural Dynamics*, 25 (1) 31-46.

Ferrigni, F. (1990): San Lorenzello: á la Recherché des "Anomalies" qui Protégent. Centre Universitaire pour les Biens Culturels, Ravello, Italia.

Fournier d'Albe, M. (1985) "The Quantification of Seismic Hazard for the Purposes of Risk Assessment", *International Conference on Reconstruction, Restauration and Urban Planning of Towns and Regions in Seismic Prone Areas*, Skopje, Yugoslavia.

Funlowicz, S., Ravetz, J. (1990) *Uncertainty and Quality in Science for Policy*. Dordrecht, Kluwer Academic Publishers

Funtowicz, S , Ravetz, J. (1992): The Role of Science in Risk Assessment. *Social Theories of Risk*_ S Krimsky and D Golding. Westport, Praeger: 59-88.

Galambos, T.V. (1992): "Design Codes", en *Engineering Safety*, Blockley, D (Ed) MacGraw-Hill International Series in Civil Engineering, London

Galambos, T.V., Ellingwood, B (1986): Serviceability Limit States: Deflection, ASCE, *Journal Structural Engineering*, Vol. 112, No 1, pp. 67-84

Gallopin G., (1994). *Impoverishment and Sustainable Development: A System Approach*, International Institute for Sustainable Development, Manitoba, Canada.

García, L. E (1984). "Development of the Colombian Seismic Code", *Proceedings of the Eight World Conference on Earthquake Engineering*, San Francisco, Ca USA

García, L.E. (1998): *Dinámica Estructural Aplicada al Diseño Sísmico*, Asociación Colombiana de Ingeniería Sísmica, Bogotá.

García, L. E (1999). "The January 25th 1999 Earthquake in the Coffee Growing Region of Colombia Accelerographic Records, Structural Response and Damage, and Code Compliance and Enforcement", *12th WCEE, Auckland*, New Zealand

Garret, M.J. (1999): *Health Futures*, World Health Organization, Geneva.

Gilbert, R., Kreimer, A. (1999): 'Learning from the World Bank's Experience of Natural Disaster Related Assistance'. *Urban and Local Government Working Paper Series* 2, Washington, DC: World Bank, May.

Gómez-Soberón, C.A., Barbat, A.H., Oller, S. (1999): "Vulnerability Assessment of Motorways Bridges: State-of-the-art", *Technical Report CIMNE IT-315*, Barcelona.

Grier, B. (1988): *One Thousand Years of Methematical Psychology* (Artículo presentado en la Society for Mathematical Psychology Convention, Madison, Wisconsin.

Hadipriono, F.C. (1995): Fuzzy Sets in Probabilistic Structural Mechanics, *Probabilistic Structural Engineering Handbook Theory and Industrial Applications*, Sundararajan, C (Ed.). Chapman and Hall, New York.

Hall, W , Wiggins, J.H., (2000). "Acceptable Risk: A Need for Periodic Review", *Natural Hazard Review*, Journal ASCE, 1 No. 3. Washington

Harvey, D. (1992): *The Condition of Postmodernity*, Basil Blackwell, Oxford

Harvey, D. Reed, M. (1999): "Social Science as Study of Complex Systems" In *Chaos theory in the social sciencies*, Douglas, K. Elliot, E., (Eds.), The University of Michigan Press.

Hasofer, A.M., Lind, N. (1974): "An Exact and Invariant Fist-Order Reliabilty Format", *Journal of Engineering Mechanics*, ASCE, **100**, No. EM1, February, pp. 111-121

Heyman, B, Davis, C., Krumpe, P.F. (1991): 'An Assessment of Worldwide Disaster Vulnerability'. *Disaster Management* 4(1): 3-14.

Hayman, B. (1998): *Fundamentals of Engineering Design*, Upper Saddle River, Prentice Hall, New Jersey.

Helm, P. (1996): "Integrated Risk Management for Natural and Technologcal Disasters", *Tephra* **15,** June, Number 1, Ministry of Civil Defence of New Zealand.

Hermelín, M. (1991): *Geología, Prevención de Desastres y Planeación Física* y *Anotaciones sobre el Actual Concepto de Impacto Ambiental en Colombia*, Report AGID No. **16,** Environment Geology and Applied Geomorphology in Colombia.

Hewitt, K. (Ed.) (1983): *Interpretation of Calamity: From the Viewpoint of Human Ecology*, London, Allen and Unwin.

Hewitt, K. (1997): *Regions of Risk: A Geographical Introduction to Disasters*, Logman, Essex, UK.

Howard, R.A. (1980): "On Making Life and Death Decisions" *Societal Risk Assessment*, General Motors Laboratories, pp. 89-113, reprinted in R.A. Howard and J.E. Matheson (Eds.) (1989), *Principles and Applications of Decision Analysis, Vol.II: Profesional Collection*, palo Alto, CA: Strategic Decisions Group, pp. 483-500.

Hurtado, J.E. (1998): "Modelación Estocástica de la Acción Sísmica" *Monografías de Ingeniería Sísmica*, No. 33. Centro Internacional de Métodos Numéricos en Ingeniería, Barcelona.

Hurtado, J.E., Barbat, A.H. (1998): "Monte Carlo Techniques in Computational Stochastic Mechanics". *Archives of Computational Methods in Engineering*, **5**: 3-30.

Jang, J.-S. R., Sun,C.-T., Mizutani, E., (1997): *Neuro-Fuzzy and Soft Computing. A Computational Approach to Learning and Machine Intelligence*, Prentice Hall, New York.

Jaramillo J.I., Cowan H.A. (1999): *The 'Eje Cafetero' Earthquake, Colombia of January 25 1999*, University of Canterbury, Christchurch, New Zeland.

Johnson, B. B., Covello, V.T. (1987):. *The Social and Cultural Construction of Risk*. Dordrecht, D. Reidel Publishing Company.

Jordán, R., Sabatini F. (1988): "Economía Política de los Desastres Naturales: Prevención y Capacitación", *Revista EURE*, XIV, 43, Santiago.

Kates, R.W. (1962): "Hazard and Choice Perception in Floodplain Management. Research Paper No. 78. Chicago: University of Chicago.

Kates, R.W. (1971): "Natural Hazard in Human Ecological Perspective: Hypotheses and Models", *Economic Geography*, **47(3)**, Clark University.

Kates, R.W. (1978): *Risk Assessment of Environment Hazard*, John Wiley & Sons, New York.

Kauffman, S.A. (1993): *The Origins of Order: Self-Organization and Selection in Evolution*. New York, N.Y.: Oxford University Press.

Keller, E.A., Pinter N.(1996): *Active Tectonics*, Prentice Hall, New Jersey.

Kervern, G.Y., Rubise, P. (1991): *L'archipel du Danger. Introduction aux Cindyniques*, Economica Edit.

Kircher, C.A., Nassar, A., Kustu, O., Holmes, W. (1997): *Earthquake Spectra*. Earthquake Engineering Research Institute. Volume13, Number 4. November.

Kletz, T.A. (1976): *Chemical Engineering Program*, Vol 72, No 11, p. 48.

Kletz, T.A. (1982): Hazard Analysis: A Review of Criteria, *Reliability Engineering*, 3 pp. 325-338.

Kosko, B. (1995): *Pensamiento Borroso*, Drakontos, Editorial Crítica, Barcelona.

Kreimer A., Munasinghe M. (Eds,) (1991): "Enviromental Management and Urban Vulnerability", *The World Bank Discussion Papers 168*, Washington.

Kreimer, A., Munasinghe (Eds.) (1992): *Managing Natural Disasters and the Environment*, Washington, The Worl Bank.

Lapajne, J. (1985): "Vulnerability and the MSK Scale", *Proceedings of the International Conference on Reconstruction, Restauration and Urban Planning of Towns and Regions in Seismic Prone Areas*, IZIIS, Skopje.

Lavell, A. (1992): "Ciencias Sociales y Desastres Naturales en América Latina: Un Encuentro Inconcluso" *Desastres Naturales, Sociedad y Protección Civil*, COMECSO, México.

Lavell, A. (1996): "Degradación Ambiental, Riesgo y Desastre Urbano. Problemas y Conceptos: Hacia la Definición de una Agenda de Investigación", *Ciudades en Riesgo*, M. A. Fernández (Ed.), La RED, USAID.

Lavell, A. (2000): "Draft Annotated Guidelines for Inter-Agency Collaboration in Programming for Disaster Reduction.", unprinted for Emergency Response División at UNDP, Geneva.

Lavell A., Franco E., (Eds.) (1996): "Estado, Sociedad y Gestión de los Desastres en América Latina,", Red de Estudios Sociales en Prevención de Desastres en América Latina, La RED, Tercer Mundo Editores, Bogotá.

Leondes C.T., (Ed.) (1998): *Fuzzy Logic And Expert Systems Applicatios*, Academic Press, San Diego,Califorinia.

Lewin, R. (1995): *Complejidad*, Tusquets Editores, Barcelona.

Listone, H.A., Turoff, M. (1975): The Delphi Method: Techniques and Applications, Addison-Wesley, Reading, Massachussets.

Liu, W.K., Belytschko, T., Lua, Y.J. (1995): First-Order And Second-Order Reliability Methods, *Probabilistic Structural Engineering Handbook. Theory and Industrial Applications*, Sundararajan, C. (Ed.). Chapman and Hall, New York.

Liverman D.M. (1990): Vulnerability to Global Environmental Change, *Understanding Global Environmental Change: The Contributions of Risk Analysis and Management*, R.E. Kasperson, K. Dow, D. Golding, and J.X. Kasperson (Eds.), Worcester, MA, Clark University.

Lorenz, E.N. (1995): *La Esencia del Caos*, Editoral Debate, Madrid.

Lorenz, H.W. (1997): *Nonlinear Dynamical Economics and Chaotic Motion*, 2nd edition, Spriner-Verlag, Germany.

Luhmann, L. (1993): *Risk: A sociological theory*, New York: Aldine de Gruyter.

Maldelbrot, B.B. (1975): *The Fractal Geometry of Nature*, W.H. Fremman & Co., San Francisco. En castellano por Tusquets Editores (1997), Barcelona.

Maldelbrot, B.B. (1987): *Los Objetos Fractales: Forma, Azar y Dimensión*, Tusquets Editores, Barcelona.

Maldonado R., E, Casas, J.R., Canas, J.A. (1999): Utilización de los Conjuntos Difusos en Modelos de Vulnerabilidad Sísmica. *Monografías de Ingeniería Sísmica.* A. H. Barbat (Ed.). Centro Internacional de Métodos Numéricos en Ingeniería, UPC, Barcelona.

Maldonado R., E, Casas, J.R., Canas, J.A. (2000): Modelo de Vulnerabilidad Sísmica de Puentes Basado en Conjuntos Difusos *Monografías de Ingeniería Sísmica.* **IS-40** A. H. Barbat (Ed.). Centro Internacional de Métodos Numéricos en Ingeniería, UPC, Barcelona.

Mansilla, E. (Ed.) (1996): *Desastres: Modelo para Armar*, La RED, Lima.

Margalef, R. (1986): Variaciones sobre el Tema de la Selección Natural. Exploración, Selección y Decision en Sistemas Complejos de Baja Energía. En *Proceso al Azar*, Edición de J. Wagensberg, Tusquets Editores, Barcelona.

Maskrey, A. (1984): Community Based Hazard Mitigation, In Disasters Mitigation Program Implementation, Virginia Polytechnic Institute.

Maskrey, A., Romero, G. (1986*): Urbanización y Vulnerabilidad Sísmica en Lima Metropolitana*, Centro de Estudios y Prevención de Desastres; Lima.

Maskrey, A. (1989): *Disaster Mitigation: A Community Based Approach*. Oxford: Oxfam.

Maskrey A., (Comp.) (1993a): *Los Desastres No son Naturales*, Red de Estudios Sociales en Prevención de Desastres en América Latina, LA RED, Tercer Mundo Editores, La RED, Bogotá. http://www.desenredando.org

Maskrey, A. (1993b): Vulnerability Accumulation in Peripherical Regions in Latin America: the Challenge for Disaster Prevention and Management, *Natural Disasters: Protecting Vulnerable Communities*, Ed. Marriman P.A., Browitt, C.W, IDNDR, Thomas Telford, London.

Maskrey, A. (1994): "Comunidad y Desastres en América Latina: Estrategias de Intervención", *Viviendo en Riesgo: Comunidades Vulnerables y Prevención de Desastres en América Latina*, Allan Lavell (Ed.), LA RED, Tercer Mundo Editores, Bogotá.

Maskrey, A., (Ed.) (1998): *Navegando entre Brumas: La Aplicación de los Sistemas de Información Geográfica al Análisis de Riesgo en América Latina*, LA RED, ITDG, Peru.

Maskrey, A., Bender, S., Peacock, W., (Eds.) (1998): The Interamerican Dialogue for Disaster Reduction: Dialogue I, Panama, La RED, Lima.

Meadows, D.H., Meadows, D.L. (1974): *Dynamics of Growth in a Finite World*, Cambridge: Wrigth-Allen Press.

Meadows, D.H., Meadows, D.L., Randers J. (1994): *Más Allá de los Límites del Crecimiento*, El País-Aguilar, Madrid.

Melchers, R. (1999): *Structural Reliability Análisis and Prediction*, Bristish Library Cataloguing in publication data, London.

Merkhofer M.W., (1987): "Decision Sciencie and Social Risk Management", Dodrecht, D. Reidel, USA.

Mileti, D.S. (1996): Psicología Social de las Alertas Públicas Efectivas de Desastres, Especial: Predicciones, Pronósticos, Alertas y Respuestas Sociales, Revista *Desastres & Sociedad No.* **6**, LA RED, Tarea Gráfica, Lima.

Mileti, D.S. (1999): *Disasters by Design. A Reassessment of Natural Hazards in the United States.* Washington, D C.: Joseph Henry Press

Milutinoviç, Z., Petrovski J. (1985a): *Earthquake Damage Prediction - Modeling and Assessment,* IZIIS, Skopje

Milutinoviç, Z., Petrovski J. (1985b) "Earthquake Vulnerability and Loss Assessment for Physical and Urban Planning", *International Conference on Reconstruction, Restoration and Urban Planning of Towns and Regions in Seismic Prone Areas,* IZIIS, Skopje. Yugoalavia.

Milutinoviç, Z , Kameda, H. (1983): *Equivalent Ground Acceleration (EQA) as an Engineering Seismic Hazard Parameter: development and Estimation,* Research Report KUCE 83-ST-01, Kyoto University.

Miranda, E. (1996). "Assessment of the Seismic Vulnerability of Existing Buildings" *11th World Conference on Earthquake Engineering*, CD ROM, paper No. **513**, Acapulco.

Mitchell, J.K., (1992): Natural Hazards and Sustainable Development, Paper presented at *The Natural Hazards Research and Applications Workshop*, Boulder, Colorado.

Mitchell, W. A. (1999): "Was the Izmit Earthquake of August 17, 1999, Just Another Earthquake in Turkey?", *Natural Hazards Observer*, **XXIV(2)**, November.

Modarres, M., Kaminskiy, M , Krivtsov, V (1999). *Reliability Engineering and Risk Analysis. A Practical Guide*, Marcel Dekker, New York.

Morin, E. (1994): *Introducción al Pensamiento Complejo*, Editorial Gedisa, Barcelona, y Red Colombiana de Pensamiento Complejo REDCOM: http://www.colciencias.gov.co/redcom

Morin, E. (1995): *Sociología*, Editorial Tecnos S.A., Madrid.

Morris, D.M (1979): *Measuring the Conditions of the World's Poor.* Overseas Development Council.

Munda, G. (2000): "Multicriteria Methods and Process for Integrated Environmental Assessment" *Métodos Numéricos en Ciencias Sociales (MENCIS 2000)*, Oñate, E. *et al.* (Eds.) CIMNE-UPC, Barcelona.

Muñoz-Carmona, F.A. (1997): "Notes on Communication and Volcanic Risk", en B. M Drottz Sjoberg (Ed.). *New risk frontiers,* 10th Anniversary, The society for risk analysis-Europe, Stockholm. (pp.123-128), Center for Risk.

Nicolis, G., Pregogine, I (1989): *Exploring Complexity: An Introduction.* New York: W H Freeman.

Oppenheim, L. (1977). *Ancient Mesopotamia,* University of Chicago Press, Chicago.

Ordaz, M , Meli, R , Montoya-Dulché, C., Sánchez, L., Perez-Rocha, L.E. (1994) "Bases de Datos para la Estimación de Riesgo Sísmico en la Ciudad de México", *Cuadernos de Investigación,* **1**, CENAPRED, México D.F.

Otero, R.C., Marti, R.Z. (1995): 'The Impacts of Natural Disasters on Developing Economies Implications for the International Development and Disaster Community'. In Munasinghe, M., Clarke, C (Eds), *Disaster Prevention for Sustainable Development. Economic and Policy Issues,*

Report from the Yokohama World Conference on Natural Disaster Reduction, May 23–27, 1994. Washington, DC· World Bank and International Decade for Natural Disaster Reduction.

Park, Y. J., Ang A.H-S. (1985): Mechanistic Seismic Damage Model for Reinforced Concrete, *Journal of Structural Engineering, ASCE*, Vol 111, No. ST4, 722-739.

Park Y.J, Ang A.H-S, Wen Y.K. (1985). Seismic Damage Analysis of Reinforced Concrete Buildings, *Journal of Structural Engineering*. ASCE, Vol 111, No ST4, 740-757.

Park, Y J Ang, A H-S, and Wen, Y.K., (1987)· *Seismic Damage Analysis and Damage-Limiting Design of R/C Buildings*, Civil Engineering Studies, Report SRS 516, University of Illinois, Urbana.

Park Y.K. , Reinhorn A.M., Kunnath S K. (1987): *IDARC: Inelastic Damage Analysis of RC frame-shear wall Structures*, Technical Report NCEER-87-0008, National Center for Earthquake Engineering Research, State University of New York, Búfalo.

Parker, R.S., (1991). "Vulnerability and Resiliency: Enviromental Degradation in Major Metropolitan Areas of the Developing World", *Enviromental Mangement and Urban Vulnerability*. Kreimer, A., y Munasinghe, M. (Eds), The World Bank, Washington, D.C.

Pelanda, C. (1981): *Disaster and Socio Systemic Vulnerability*, preliminary paper **68**, Disaster Researh Centre, Ohio State University, Columbus Ohio.

Pate, M.E (1983): "Aceptable Design Processes and Acceptable Risks in Public Sector regulations" *IEEE Transactions on Systems, Man, and Cybernetics*, vol. SMC-13, no. 3, March/April,pp.113-124.

Peña, C.A. (2000): *Evolutionary Fuzzy Modeling*, Ecole Polytechnique Federale de Lausanne, Logical Systems Laboratory, Universidad de los Andes, Bogotá.

Petrovski J. (1984). "Development of Empirical and Theoretical Vulnerability and Seismic Risk Models", *8th WCEE*, San Francisco.

Petrovski, J., Milutinoviç Z (1990): "Modelo para la Evaluación de la Vulnerabilidad y el Riesgo Sísmico", *Seminario sobre Desastres Sísmicos en Grandes Ciudades*, Bogotá.

Pidgeon, N.F. (1992): "The Psychology of Risk", in *Engineering Safety*, Blockley, D. (Ed.), MacGraw-Hill International Series in Civil Engineering, London.

Platón (1983): "El banquete, Fedón, Fedro", Ediciones Orbis, S.A. Barcelona.

Porter, K., Scawthorn C Taylor C. Blais N. (1998): Appropriate Seismic Reliability for Critical Equipment Systems, Technical Report MCEER-98-0016, University of Buffalo, State University of New York.

Priesmeyer, H. R. (1994). The Chaos System Software, Fair Oaks Ranch, TX: Management Concepts, Inc.

Pregogine, I (1996): "Enfrentándose con lo Irracional" En *Proceso al Azar*, Wagensberg, J. (Ed.), Tusquets Editores, Barcelona

Priestley, M.J. Calvi, G M. (1991). "Towards a Capacity-Design Assessment Procedure for Reinforced Concrete Frames", *Earthquake Spectra*, **7(3)**.

Quarantelli, E.L., (1988): "Disaster Studies. An Analysis of the Social Historical Factor Affecting the Development of Research in the Area", *International Journal of Mass Emergencies*, Vol. **5 (3)** pp. 285-310.

Quarantelli, E.L., (1995): "What is a Disaster?", *International Journal of Mass Emergencies and Disasters*, Vol. **13 (3)** pp. 221-229

Quarantelli, E.L., (1998): "What is a Disaster?", New York, Routledge

Rabin, R.L (1978): "Dealing with Disasters: Some Thoughts on the Adequacy of the Legal Systems", **30**, *Stanford Law Review*, 281-298.

Ramírez F. (1991) "Asentamientos Humanos en Zonas de Alto Riesgo - Elementos para una Política", *Regional Training Workshop on Disaster Management*, PNUD/OPS/OEA, Bogotá.

Ramírez, F. Cardona O.D. (1996): "El Sistema Nacional para la Prevención y Atención de Desastres de Colombia", *Estado, Sociedad y Gestión de los Desastres en América Latina. En Busca del Paradigma Perdido*, Lavell, A., Franco E. (Eds.), La RED, FLACSO, ITDG.

Reid, S.G (1992): "Acceptable Risk", *Engineering Safety*, D. Blockley, (Ed.), MacGraw-Hill International Series in Civil Engineering, 138-166, London.

Rogge, J.R. (1992): *Una Agenda de Investigación para el Manejo de Desastres y Emergencias*, PNUD-UNDRO, Universidad de Minotoba.

Rubinstein, R.Y (1981): *Simulation and the Monte Carlo Method.* John Wiley and Sons, New York.

Saavedra, M.R (1996): *Desastre y Riesgo*, CINEP, Bogotá.

Saaty, T (1980): *The Analytical Hierarchy Process Planning, Priority Setting, Resource Allocation.* New York: McGraw-HillBook Co.

Saaty, T.L., Vargas, L G (1991). *Prediction, Projection, and Forcasting: Applications of the Analytical Hierarchy Process in Economics, Finance, Politics, Games, and Sports* Boston: Kluwer Academic Publishers.

Sánchez-Silva, M. (2000): "Basic Concepts in Risk Análisis and Decisión-making Process", *International Journal for Civil Engineering and Environmental Systems.*

Sarria, A. (1990): *Ingeniería Sismica*, Ediciones Uniandes, Bogotá, Colombia.

Sarria, A. (1999): *Aspectos Generales del Sismo del Eje Cafetero del 25 de enero de 1999*, Federación de Aseguradores de Colombia, FASECOLDA, Bogotá, Colombia.

Sauter, F., Shah, H.C. (1978): "Studies on Earthquake Insurance" *Proceedings Of The Central American Conference On Earthquake Engineering,* Vol Ii, San Salvador, El Salvador

Scheidegger, A E. (1987): "The Fundamental Principles of Landscape Evolution, *Catena Supplement* **10**, 199-210.

Sen, A.K., (1981): *Poverty and Famines: An Essay on Entitlement and Deprivation*, Oxford Claredon Press

Sen, A.K., (2000): *Development as Freedom.* New York. Alfred A. Knopf.

Shinozuka, M. (1987). "Stochastic Fields and Their Digital Simulation", in. *Stochastic Methods in Structural Dynamics*, edited by G. I Schuëller and M Shinozuka. Martinus Nijhoff Publishers, Rotterdam.

Singhal A., Kiremidjian A.S. (1997): *A Method for Earthquake Motion-Damage Relationships with Application to Reinforced Concrete Frames* The John A Blume Earthquake Engineering Center. Department of Civil Engineering. Stanford University. Technical Report NCEER-97-0008.

Slovic, P. (1992): "Perceptions of Risk: Reflections on the Psychometric paradigm". *Social Theories of Risk*, S. Krimsky & Golding (Eds.), pp.117-152, Wesport, Connecticut, Praeger.

Smith, K. (1992): *Environmental Hazards: Assessing Risk and Reducing Disasters*, Routledge, New York, London.

Smithson, M.J. (1996): "Human Judgment and Imprecise Probabilities", published in G. de Cooman and P. Walley (eds.) *Imprecise Probabilities Project*, http://ensmain.rug.ac.be/~ipp/documentation/judgment/judgment.html, 13 pp.

Smolka, A., Allman, A., Ehrlicher, S. (2000): An Absolute Earthquake Risk Index for Insurance Purposes, *Proceedings of 12th World Conference of Earthquake Engineering*, January-February 2000, Auckland, New Zealand.

Smuts, J.C. (1926): *Holism and Evolution*, Nova Iorque: Mac Millan.

Soutadé, G. (1998): *Les Tremblements de Terre dans les Pyrénées Orientales et en Catalogne*, Editorial Trabucaire, Perpignan, p.54, Francia.

Spence R. J. S. (1990): "Seismic Risk Modelling - A Review of Methods", contribution to *Verso il New Planning*, University of Naples, Papers of Martin Centre for Architectural and Urban Studies, Cambridge.

Spence, R.J.S. (1993): Assessing Vulnerability of Low-income Communities: A Progress Report, *Natural Disasters: Protecting vulnerable communities*, Ed. Marriman P.A., Browitt, C.W, IDNDR, Thomas Telford, London.

Starr C. (1969): "Social Benefit Versus Technological Risk" *Science*, American Association for the Advancement of Science, **165**.

Starr C. (1972): "Benefit-Cost Studies in Sociotechnical Systems" *Perspective on Benefit-Risk Decision-Making*, Committee on Public Engineering Policy, Nationa Academy of Engineering, Washington, D.C.

Steinbrugge, K.V. (1982): *Earthquakes, Volcanos and Ttsunamis: An anatomy of Hazard*.

Stewart, I. (2001): *Juega Dios a los Dados?* Drakontos, Crítica, Barcelona.

Stewart, M., Melchers, R. (1997): *Probabilistic risk assessment of engineering systems*, Chapman & Hall.

Stone W.C., Taylor A.W. (1993): Seismic Performance of Circular Bridge Columns Designed in Accordance with AASHTO/CALTRANS standards, *NIST Building Science Series* **170**, National Institute of Standards and Technology, Gaithersburg MD.

Sundararajan, C. (Ed.) (1995): *Probabilistic Structural Engineering Handbook. Theory and Industrial Applications*. Chapman and Hall, New York.

Susman, P., O'Keefe, P., Wisner, B. (1984): *Global Disasters: A Radical Interpretation*, pp. 264-83 in Hewitt 1984.

Taylor C., Vanmarcke E., Davis J. (1998): "Evaluating Models of Risk from Natural Hazards" *Paying the Price*, Kunreuther H., Roth R.J., (Eds.) Joseph Henry Press, Washington.

Timmerman, P. (1981): *Vulnerability, Resilience and the Collapse of Society*. Environmental Monograph No. **1**, Institute for Environmental Studies, University of Toronto.

Tversky, A., Kahneman, D. (1974): "Judgment under Uncertainty; Heuristics and Biases, *Science*, **185**.

Vanmarcke, E.H. (1976): "Structural Response to Earthquakes", in *Seismic Risk and Engineering Decisions*, edited by C. Lomnitz and E. Rosenblueth. Elsevier Scientific Publishing Company, Amsterdam.

Vere-Jones, D. (1983): "What are the Main Uncertainties in Estimating Earthquake Risk?, *Bulletin of the New Zealand National Society for Earthquake Engineering*, **16**, No. 1, Auckland.

Wagensberg, J. (1998): *Ideas Sobre la Complejidad delMundo*, Tusquets Editores, Barcelona.

Wasgate, K.N., O'Keefe, P. (1976): *Some Definitions of Disaster*, occasional paper No. **4**, Disaster Research Unit, University of Bradford.

Wathern, P. (1988): *Environment Impact Assessment*, Unwin Hyman, London.

Weil, P. (1990): *Holistica: Uma Nova Visão e Abordagem do Real*, Edit. Palas Athenas, Brasil: Edición en Español: *Holistica: una Nueva Visión y Abordaje de lo real*, Edit. San Pablo, 1997, Bogotá.

White, G.F. (1945): "Human Adjustment to Floods: A Geographical Approach to the Flood Problem in the U.S", *Research Paper **29***, Department of Geography, University of Chicago.

White, G.F. (1964): "Choice of Adjustment of Floods", *Research Paper **93***, Department of Geography, University of Chicago.

White, G.F. (1973): "Natural Hazards Research", *Directions in Geography*, R. . Chorley (Ed.), 193-216, London.

White, G.F., Haas, E., (1975): *Assessment of Research on Natural Hazards*, Cambridge, Mass.: MIT Press.

Whitman, R.V. (1973): "Damage Probability Matrices for Prototype Buildings". *Structures Publication* **380**, Department of Civil Engineering, M.I.T. Boston, Massashusetts.

Whitman R., Reed J. W. y Hong, S. T. (1973): "Earthquake Damage Probability Matrices", *Proceedings of the Fifth World Conference on Earthquake Engineering*, Roma.

Whitman, R.V., Cornell, C.A. (1976): "Design", in *Seismic Risk and Engineering Decisions*, C. Lomnitz and E. Rosenblueth (Eds.) Elsevier Scientific Publishing Company, Amsterdam.

Widemann, P. M. (1993): "Taboo, Sin, Risk: Changes in the Social Perception of Hazards", *Risk is a Construct*, B. Ruck (Ed.), pp.41-63, Munchen, Knesebeck.

Wiesner, L.R. (1991): *Desastre y Derecho*, Monografías Jurídicas, Editorial TEMIS, Bogotá, Colombia.

Wiggins, J.H., Moran, D.F. (1970): *Earthquake Safety in the City of Long Beach Based on the Concept of Balanced Risk*, Report, J. H. Wiggins, Co., Redondo Beach California.

Wiggins, J.H. (1972): "The Balanced Risk Concept: New Approach to Earthquake Building Codes" *Civil Engineering*, ASCE, Aug.

Wiggins, J.H. (1978): "Seismic Risk Analysis" February 8-9, presentation sponsored by the EERI.

Wikjman, A., Timberlake, L. (1984): *Natural Disasters: Acts of God or Acts of Man?*, Earthscan, Washington, D.C.

Wilches-Chaux G. (1989): *Desastres, Ecologismo y Formación Profesional*, SENA, Popayán, Colombia.

Williams, Martin S., Sexsmith, R G. (1995): "Seismic Damage Indices for Concrete Structures: A State-of-the-art Review". *Earthquake Spectra* Earthquake Engineering Research Institute. **11**, No 2. May.

Winchester, P. (1992): *Power, Choice and Vulnerability. A Case Study in Disaster Mismanagement in South India*, James and James, London.

Wisner, B. Westgate, K., O'Keefe, F. (1976): "Poverty and Disaster." *New Society* 37, pp 546-548, London

Wisner, B (1993): "Disaster Vulnerability: Scale, Power and Daily Life" *GeoJournal* 30(2):127-40.

Wisner, B. (2000): Issues and Challenges in Vulnerability and Risk Indexing, UNDP/ERD Expert Meeting, September, Geneva

Wisner, B., (2001). "Disasters: What the United Nations and its World Can Do." *United Nations Chronicle* 37,4, pp. 6-9.

Wisner, B. (2001): *Vulnerability in Disaster Theory and Practice: From Soup to Taxonomy, Then to Analysis and Finally Tool*, International Work-Conference on Vulnerability in Disaster Theory and Practice, University of Wagenisngen, Netherlands

Yeh, C.H., Wen, Y.K. (1990): Modeling of Nonstationary Ground Motion and Analysis of Inelastic Structural Response. *Structural Safety*, 8:281-298.

NORMATIVAS, RECOMENDACIONES, INFORMES

AIS (1998). *Normas Colombianas de Diseño y Construcción Sismo Resistente - NSR-98 (Ley 400 de 1997 y Decreto 33 de 1998)*, Asociación Colombiana de Ingeniería Sísmica - AIS, Bogotá, Colombia, 4 volúmenes.

Alcaldía Mayor de Santafé de Bogotá D.C. (1997): *Bogotá 2000: Pacto para una Ciudad Competitiva con Equidad*, Santafé de Bogotá

Applied Technology Council (1978): *Tentative Provisions for the Development of Seismic Regulations for Buildings, Commentary*, **ATC-3-06**, Redwood City, CA., Versión en Español de la Asociación Colombiana de Ingeniería Sísmica, 1980, Bogotá.

Applied Technology Council (1985): *Earthquake Damage Evaluation Data* for *California* , **ATC-13**, (FEMA), Redwood City, CA.

Applied Technology Council (1988): *Rapid Visual Screening of Buildings for* Potential *Seismic Hazards: A Handbook*, **ATC-21**, (FEMA Report 154), Redwood City. CA

Applied Technology Council (1991) *Seismic Vulnerability and Impact of* Disruption *of Lifelines in the Conterminous United States*, **ATC-25**, (FEMA), Redwood City, CA.

Applied Technology Council (1999) *Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings - Basic Procedures Manual – Technical Resources – Repair*, **ATC-40**, (FEMA Reports 306 - 307- 308), Redwood City, CA.

ASCE (1983): *Advisory Notes on Lifeline Earthquake Engineering*, Report of Technical Council on Lifeline Earthquake Engineering, New York.

ASCE (1986): *Seismic Evaluation of Lifelines Systems - Case Studies*, Fall Convention Boston, New York, October.

ASCE (1990): *Recent Lifeline Seismic Risk Studies*, Monograph No.1, New York.

BID (2000): *El Desafío de Desastres Naturales en América Latina y el Caribe, Plan de Acción del Banco Interamericano de Desarrollo*. Departamento de Desarrollo Sostenible, Informe Especial, Washington, D.C.

BSSC (1991):*NEHRP Recommended Provitions for the Development of Seismic Regulations for New Building, Part 2 – Commentary*, Building Sismic Safety Council, FEMA, Washington DC

CASA (1997): *PROMENVIR – A Meta-computing System for Computational Stochastic Mechanics. User Manual*. Madrid.

CONICIT (1999): *Reflexiones en Torno a la Investigación y a la Holística*, Memorias de las Primeras Jornadas Internacionales de Investigación Holística, Consejo Nacional de Investigaciones Cientíicas y Tecnológicas, Caracas.

Departamento Administrativo de Planeación Distrital (1991): "Hogares con Necesidades Básicas Satisfechas, y Necesidades Básicas insatisfechas, según Sexo y edad del jefe de la Familia", encuesta de pobreza y calidad de vida, Bogotá 1991.

Departamento Administrativo de Planeación Distrital (1997): *Desarrollos Residenciales de Origen Clandestino en Trámite de Legalización*, Bogotá.

EERI (1984): *Glossary of Terms for Probabilistic Seismic–Risk and Hazard Analisys*, Committee on Seismic Risk, El Cerrito, California.

EERI (1990): The Basics of Seismic Risk Analysis," *EERI Earthquake Spectra*, 5 (4):675-801, Committee on Seismic Risk, El Cerrito, California.

EERI (1999): *The Izmit (Kocaeli), Turkey Earthquake of August 17, 1999*, Special Earthquake Report, October 1999, EERI Newsketter, **33(10)**, Oakland, California. http://www.eeri.org

FEMA (1989): *Estimating Losses From Future Earthquakes*, Panel Report and Technical Background, Series 51, FEMA 177/June.

FEMA (1997): *NEHRP Guidelines for The Seismic Rehabilitation of Buildings/ Commemtary*. Federal Emergency Management Agency, (FEMA Reports 273/ 274), Washington.

FEMA (1999): *Earthquake Loss Estimation Methodology* HAZUS, Technical Manual, Vol. I, II and III, First Edition 1997, National Institute of Buildings Sciences for Federal Emergency Management Agency, Washington.

Fundación Alemana para el Desarrollo Internacional (1994): *Mesa Redonda sobre Mitigación de Desastres y Políticas de Prevención para el Desarrollo Sostenible*, Berlín.

ICBO (2000): *International Building Code*, International Council of Building Officials, Whittier, CA

INGEOMINAS (1999): *Terremoto del Quindío (Enero 25 de 1999)*, Informe Técnico-científico. Volumen I: Aspectos Geodinámicos Regionales; Volumen II: Zonificación Sismogeotécnica", Santa Fe de Bogotá, Colombia.

LA RED, (1992): *Research Agenda and Constitution,*. Network for Social Studies on Disaster Prevention in Latin America - La Red. En Español: Agenda de Investigación y Constitución; www.desenredando.org

MCEER (1999): "Kocaeli (Izmit) Earthquake of August 17, 1999", *MCEER Bulletin*, **13(3)**, Summer 1999. http://mceer.buffalo.org

Munich Re (1999) *A Year, a Century, and a Millennium of Natural Catastrophes are all nearing their End* Press release of 20 December. Munich Re, Munich

National Geographic Society (1997): *Restless Earth: Nature's Awesome Powers*, Washington, D C.

OPS (1993): *Mitigación de Desastres en las Instalaciones de la Salud*, Aspectos Generales, de Administración, Arquitectura, e Ingeniería, Cuatro Volumenes, Organización Panamericana de la Salud, Washington.

SIED (1995): *Proyecto Sistema de Información Estadística Distrital*, Bogotá

Scientific American (1994): *Orden y Caos*, Libros de Investigación y Ciencia, Prensa Científica, Barcelona

UN-OCHA (2000) *Structured Humanitarian Assistance Reporting*, SHARE, Geographic Information Support Team (GIST), www.reliefweb.int

UNDP (1991). Human Development Report. Oxford University Press. New York.

UNDP (1999) *Disaster Reduction and Recovery Programme: Progress Report and Plan of Action* Geneva: Disaster Reduction and Recovery Programme, United Nations Development Programme.

UNDP (2001). Feasibility Study Report on Global Risk and Vulnerability Index – Trends per Year, UNEP/DEWA/GRID for UNDO/Emergency Response Division, Geneva.

UNDRO (1979): *Natural Disasters and Vulnerability Analysis*, Report of Experts Group Meeting, Geneva.

UNDRO. (1990): *Preliminary Study on the Identification of Disaster-Prone Countries Based on Economic Impact*. New York/Geneva: United Nations Disaster Relief Organisation.

UNDRO, (1991). *Mitigating Natural Disasters: Phenomena, Effects and Options*, A Manual for Policy Makers and Planners, New York.

UNDSD (1999). *Development a Vulnerability Index for SIDS*, Division of Sustainable Development of United Nations, http:/www.un.org/esa/sustdev/sidsvind

Universidad de los Andes (1996): *Microzonificación Sísmica de Santa Fe de Bogotá*, Ingeominas, 17 volúmenes, Santa Fe Bogotá.