



The Rainflow Method in Fatigue: The Tatsuo Endo Memorial Volume

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The Rainflow Method in Fatigue: The Tatsuo Endo Memorial Volume documents the proceedings of The International Symposium on Fatigue Damage Measurement and Evaluation Under Complex Loadings held in Fukuoka, Japan, on 25-26 July 1991. The Symposium was held in memory of Professor Tatsuo Endo, inventor of the rainflow method of counting fatigue cycles. His contributions were key to the development of an overall method for evaluating the service life of engineering components subjected to fatigue loading. This volume contains 23 papers organized into four parts. Part I on the cycle counting method includes papers on the historical development of the rainflow cycle counting method, and a fatigue analysis data reduction concept for general multidimensional time series. Part II on ground vehicles includes studies on methods for solving vehicle fatigue problems caused by body resonance, and a synthetic computer system for fatigue damage-based design of weld structure for construction machines. Part III on fatigue testing and analysis includes papers on crack closure load measurements during fatigue crack growth tests on the titanium alloy Ti-6Al-4V, and growing fatigue cracks under varying amplitude loadings. Part IV presents a panel discussion on total system of fatigue damage measurement and evaluation under complex loadings.

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