



Faham Tahmassebinia

Reinforced Concrete Slabs Under Impact Loading

Numerically Simulation structural Responses of
Reinforced concrete Slabs Under Impulsive Loading



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Impulsive Loading On Reinforced Concrete Slabs

RD Boyd



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Impulsive Loading on Reinforced Concrete Slabs N. Duranovic,1994 Concrete structures under impact and impulsive loading synthesis report FIB - International Federation for Structural Concrete,1988-08-01 **Concrete Structures Under Impact and Impulsive Loading** ,1983 Pressure-impulse Diagrams Using Finite Element Analysis for Reinforced Concrete Slabs Subjected to Blast Loading Jitesh Kumar Reddy Nalagotla,2013 Reinforced concrete slab systems are widely used in protective structures designed to resist blast events Blast events subject structures to high pressure and impulse loads The magnitude of blast load experienced by a structural element is directly related to the exposed area Hence protection of reinforced concrete slabs and walls which constitute the maximum exposed area of a structure when subjected to blast loads is of great importance The main purpose of the project is to study the non linear response of reinforced concrete slabs when subjected to impact and blast loading Blast loading comprises of impulsive dynamic and quasi static loading conditions And the performance of reinforced concrete slabs subjected to these loads is highly dependent upon the reinforcing steel provided in the slab Hence a comprehensive analysis is performed on a representative slab panel with varying reinforcement Due to the nature of the blast loading analysis method used influences the slab response significantly Hence the slab response was predicted and compared using finite element FE and single degree of freedom SDOF methods An advanced finite element modeling tool LSDYNA and a commonly used SDOF analysis tool SBEDS are employed for the purpose of analysis A parametric analysis is conducted to develop Pressure Impulse PI curves for different damage levels Curve fit analysis was performed to characterize the PI curves generated from FE method Conclusions and future work recommendations are presented for design of reinforced concrete slabs for blast protection based upon the research are presented and discussed abstract **ERDA Energy Research Abstracts** ,1983 **Energy Research Abstracts** ,1983 Structural Dynamics - Vol 1 Proceedings Editors,2022-03-02 First published in 1991 This volume contains the proceedings of the first European Conference on Structural Dynamics Eurodyne 90 held at the Ruhr University Bochum FRG in June 1990 Volume one 169 9 covers impact dynamic stability soil dynamics system identification earthquake engineering earthquake engineering R C structures and earthquake engineering for steel structures ACI Structural Journal ,1991 **Advances in Concrete Slab Technology** R. K. Dhir,Ravindra K. Dhir,John G. L. Munday,1980 Advances in Concrete Slab Technology documents the proceedings of the International Conference on Concrete Slabs held at Dundee University on April 3 6 1979 **Applied Mechanics Reviews** ,1978 7th International Symposium on Interaction of the Effects of Munitions with Structures Proceedings, Bundesrepublik Deutschland, Mannheim, April 24-28, 1995 ,1995 Structures Under Shock and Impact VI Norman Jones,C. A. Brebbia,2000 Annotation Reflecting the broad range of interest in this extremely active field this book contains contributions originally presented at the sixth international conference on this subject **INIS Atomindex** ,1984 **Structures Under Shock and Impact V** Norman Jones,1998 This text covers the

structural response to explosive shocks on high and low velocity impacts Topics covered include blast loading of structures penetration mechanics collision mechanics and high speed streaming of material The Interaction of Non-nuclear Munitions with Structures ,1983 *Composite Structures 5* I.H. Marshall,1989-07-31 The papers contained herein were presented at the Fifth International Conference on Composite Structures ICCS 5 held at Paisley College of Technology Scotland in July 1989 The conference was organised and sponsored by Paisley College of Technology It was co sponsored by the Scottish Development Agency the National Engineering Laboratory the US Air Force European Office of Aerospace Research and Development the US Army Research Development and Standardisation Group UK Strathclyde Regional Council and Renfrew District Council It forms a natural and ongoing progression from the highly successful ICCS 1 2 3 and 4 held at Paisley in 1981 1983 1985 and 1987 respectively It has often been said that at the end of each decade there is much to be gained by reflecting on the manifold factors that have influenced the path of one s life Doubtless there is much truth in that ancient adage since it is only by subjectively considering the past that a glimmer of the future is possible Transactions of the American Society of Civil Engineers American Society of Civil Engineers,1985 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 Memoirs of the Faculty of Engineering, Kobe University Kōbe Daigaku. Kōgakubu,1989 Structures Under Shock and Impact VIII Norman Jones,C. A. Brebbia,2004 Reflecting the broad range of research work currently being carried out in academia and industry this book contains the proceedings of the Eighth International Conference on Structures Under Shock and Impact **Strength Theory** Mao-hong Yu,S. C. Fan,1998

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