

FRACTURE OF CONCRETE COVER - ITS EFFECT ON TENSION STIFFENING AND MODELING -

Hamed SALEM^{1,2}, Bernhard HAUKE³ and Koichi MAEKAWA⁴

¹ Member of JSCE, Ph.D., Post Doctoral Fellow, Dept. of Civil Eng., The University of Tokyo (Hongo 7-3-1, Bunkyo-ku, Tokyo 113, Japan)

² Assistant Professor, Structural Engineering Department, Cairo University (Giza, Egypt)

³ Member of JSCE, Ph.D., Dept. of Civil Eng., The University of Tokyo (Hongo 7-3-1, Bunkyo-ku, Tokyo 113, Japan)

⁴ Member of JSCE, Dr. of Eng., Professor, Dept. of Civil Eng., The University of Tokyo (Hongo 7-3-1, Bunkyo-ku, Tokyo 113, Japan)

The aim of this study is to investigate the effect of non-sufficient concrete cover on the tension stiffness of reinforced concrete. Splitting cracks are predicted by simultaneously solving equilibrium among radial bond stresses, softening tensile stresses of splitting concrete planes and transverse stress on reinforcement. The bond behavior after splitting cracks is the point of study. The analytical model is derived from the micro-bond characteristics. An experimental program was carried out to verify the post-crack bond model proposed, and the analysis fairly agrees with the reality.

Key Words: bond-slip-strain, tension stiffening, crack spacing, confining pressure, splitting crack, concrete cover

1. INTRODUCTION

When concrete cover is not sufficient, longitudinal cracks, named as splitting cracks, are formed parallel to reinforcing bars. The occurrence of these cracks is a result of three dimensional bond transfer mechanisms. The deformed bars' lugs induce bearing stresses in surrounding concrete, resulting in conical compressive struts as shown in Fig. 1. The conical bond actions between bar and concrete can be resolved into radial and tangential components. Usually, the tangential one per unit area of reinforcing bar's surface is called bond stress, whereas the radial one is called confining stress. The radial stresses can be analogous to hydraulic pressure acting on a thick-walled concrete ring. When the tensile ring stresses, as illustrated in Fig. 1, exceed the cracking strength, the splitting crack is formed as shown in Fig. 2.

The bond behavior for concrete having such cracks was studied by Gambarova et al.¹⁾. Gambarova tested specimens with artificial splitting crack. By relating the splitting crack width with the confining pressure on the bars, an empirical formula was proposed for bond stresses after longitudinal splitting of concrete cover. Abrismani and Mitchell²⁾ studied the splitting cracks' effect on the tension stiffening of concrete. Specimens with shallow depth were targeted. Here the concrete

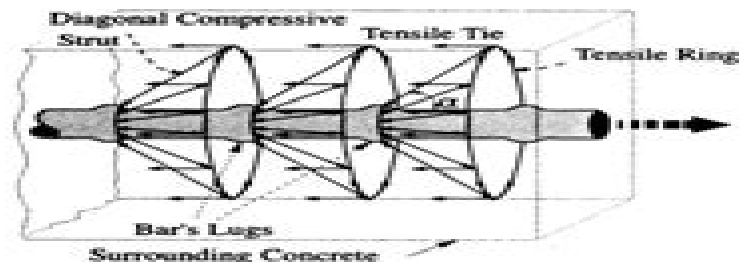


Fig. 1 Tensile ring force caused by diagonal bond struts

cover was insufficient for both sides of the reinforcing bar concerned. The common members of civil structures are deep in general and the small cover of either side of the structural reinforcement does matter. Therefore, a less effect of splitting crack would exist. Salem and Maekawa^{10), 12)} derived macroscopic tension stiffening from local bond stress development by assuming thick covers, which would lead to the full performance of bond stress formulated by Shima et al.¹¹⁾.

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Fracture in Concrete Wai-Fah Chen, Edward C. Ting, 1980 **Fracture in concrete** W. F. Chen, Committee on Properties of Materials of the ASCE Engineering Mechanics Division at the ASCE National Convention, 1980 **Fibre Reinforced Cementitious Composites, Second Edition** Arnon Bentur, Sidney Mindess, 2006-11-22 Advanced cementitious composites can be designed to have outstanding combinations of strength five to ten times that of conventional concrete and energy absorption capacity up to 1000 times that of plain concrete This second edition brings together in one volume the latest research developments in this rapidly expanding area The book is split into two parts The first part is concerned with the mechanics of fibre reinforced brittle matrices and the implications for cementitious systems In the second part the authors describe the various types of fibre cement composites discussing production processes mechanical and physical properties durability and applications Two new chapters have been added covering fibre specification and structural applications Fibre Reinforced Cementitious Composites will be of great interest to practitioners involved in modern concrete technology and will also be of use to academics researchers and graduate students Fibre Reinforced Cementitious Composites Routledge, 1990-02-02 This text covers the fundamental scientific principles of fibres that have been modified to be compatible with cementitious matrices It also provides information and a description of the properties of specific systems prepared with different types of fibres such as steel glass asbestos polypropylene natural fibres and various types of high performance polymeric fibres It includes a reference list and sets of tables describing the engineering properties of the different systems and micrographs Plasticity, Limit Analysis, Stability And Structural Design: An Academic Life Journey From Theory To Practice Wai-fah Chen, 2021-01-22 This book is a personal anthology of the author's utmost academic works and accomplishments with his former students and colleagues intended as an enduring record for the engineering community for many years to come The author's forty year professional career and academic life journey is first briefly sketched in Chapter 1 and more details are elaborated in three chapters that follow Chapter 2 The first ten years at Lehigh beginning to show Chapter 3 Twenty three years at Purdue the highly productive years and Chapter 4 seven years at UH the pursuit of excellence The author's specific academic contributions are documented in the following three chapters Chapter 5 23 academic bulletins are selected to highlight his 10 major research areas Chapter 6 23 Academic masterpiece books are listed along with their respective peer review comments and Chapter 7 academic publications include journal articles conference proceedings and symposiums and lectures and keynotes The book ends with the listing of all the author's 55 doctoral students dissertation titles in Chapter 8 In 1975 at Lehigh the author published a milestone treatise on Limit Analysis and Soil Plasticity In 1982 at Purdue he published another pioneering work on Plasticity in Reinforced Concrete In September 1999 the author was recruited by UH to take the Deanship of the College of Engineering to accomplish the noble mission to build the College to become one of the top 50 engineering schools by strengthening the faculty improving the facilities and

increasing the enrollment Over his seven years at UH a lot of progress was made in all these three areas the research program expanded facilities improved and enrollment increased Related Link s *State of the Art and Future Trends in Material Modeling* Holm Altenbach,Andreas Öchsner,2019-10-23 This special anniversary book celebrates the success of this Springer book series highlighting materials modeling as the key to developing new engineering products and applications In this 100th volume of *Advanced Structured Materials* international experts showcase the current state of the art and future trends in materials modeling which is essential in order to fulfill the demanding requirements of next generation engineering tasks *Fracture in concrete* W. F. Chen,1980 *Proceedings of the Annual Meeting* American Society for Testing and Materials,1964 Vol 12 includes under the same cover the society s year book for 1912 *Proceedings. Technical Sessions* Association of Asphalt Paving Technologists,1970 *Asphalt Paving Technology 2011* Eugene L. Skok,2011-06-28 *My Life's Journey: Reflections Of An Academic* Wai-fah Chen,2007-09-21 Dr Wai Fah Chen a Chinese born American academic and widely recognized structural engineering specialist in the field of mechanics materials and computing has certainly led a fascinating life A well respected leader in the field of plasticity structural stability and structural steel design over the past half century he has made major contributions to introduce the mathematical theory of plasticity to civil engineering practice especially in the application of limit analysis methods to the geotechnical engineering field Having headed the engineering departments at the University of Hawaii and Purdue University Chen is a widely cited author and the recipient of several national engineering awards including the 1990 Shortridge Hardesty Award from the American Society of Civil Engineers and the 2003 Lifetime Achievement Award from the American Institute of Steel Construction This book traces the life journey and reflections of Dr Chen It presents a remarkable opportunity to understand his personal history and cultural passions his struggle to achieve the American dream his life as an eyewitness to the rise of China and his career path to establish a solid engineering reputation Presenting his scientific achievements spanning the last 40 years of his career readers will thus be privy to his personal thoughts experiences and perspectives on these events **Proceedings fib Symposium in Prague Czech Republic Vol2** FIB - International Federation for Structural Concrete,2011-06-01 **Proceedings of the Technical Sessions ...** Association of Asphalt Paving Technologists,1971 *Proceedings fib Symposium in Prague Vol1 Czech Republic* FIB - International Federation for Structural Concrete,1999-10-01 **Composites Institute's, International Conference Proceedings** Spi/Ci,1999-05-12 **Proceedings of the 1986 SEM Spring Conference on Experimental Mechanics** Society for Experimental Mechanics (U.S.),1986 **Applied Mechanics Reviews** ,1969 **Proceedings of the ... SEM Spring Conference on Experimental Mechanics** ,1989 **Advanced Testing and Characterization of Bituminous Materials, Two Volume Set** Andreas Loizos,Manfred N. Partl,Tom Scarpas,Imad L Al-Qadi,2009-05-14 Bituminous materials are used to build durable roads that sustain diverse environmental conditions However due to their complexity and a global shortage of these materials their design and technical development present

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