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| 1. Record Nr. | UNINA9910383832903321 |
| Autore | Ye Hailong |
| Titolo | Chloride-Induced Steel Corrosion in Concrete Under Service Loads // by Hailong Ye, Chuanqing Fu, Ye Tian, Nanguo Jin |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020 |
| ISBN | 981-15-4108-6 |
| Edizione | [1st ed. 2020.] |
| Descrizione fisica | 1 online resource (XXIV, 138 p. 166 illus., 129 illus. in color.) |
| Disciplina | 620.13623 |
| Soggetti | Building materials Coatings Tribology Corrosion and anti-corrosives Fire prevention Buildings - Protection Building Materials Structural Materials Corrosion Fire Science, Hazard Control, Building Safety |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Chapter 1. Introduction -- Chapter 2. Chloride ingress in stressed concrete -- Chapter 3. Chloride ingress in cracked concrete -- Chapter 4. Influence of environmental conditions on chloride ingress -- Chapter 5. Steel corrosion in concrete beams under service loads. |
| Sommario/riassunto | This book summarizes the latest advances in understanding chloride ingress and steel corrosion in concrete under service loads. Unlike the existing literature, it focuses specifically on the effect of service loads on chloride-induced durability issues in reinforced concrete structures. It discusses how service loads affect the moisture and chloride penetration rate, corrosion kinetics and rust distribution, as well as the structural performance of concrete components (e.g. beams and columns) in a systematic and hierarchical way. Given its scope, the book is chiefly intended for researchers and industry practitioners in |

structural engineering, particularly those whose work involves the durability design of concrete structures.