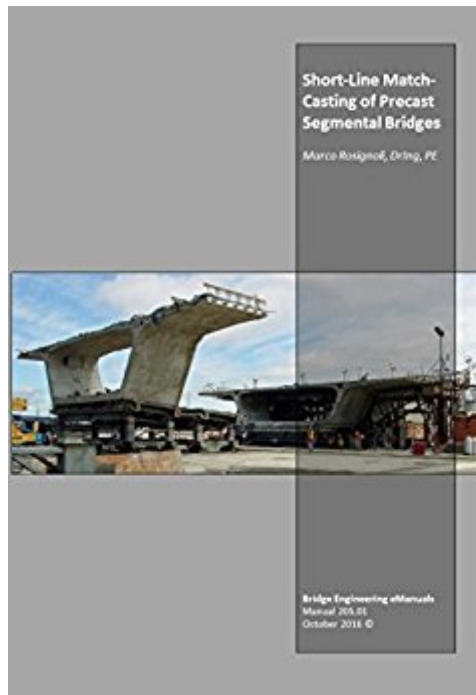




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Short-Line Match Casting Of Precast Segmental Bridges



Synopsis

With the diffusion of 75- and 100-year service-life design provisions, match-casting operations and the epoxy gluing of precast segments have acquired a critical role in assuring quality and durability of precast segmental bridges and avoiding premature joint failure. The eBook introduces span-by-span, balanced cantilever and progressive construction of precast segmental bridges and the influences of the erection method on bridge design and precasting operations. Precast segmental bridges are all about standardization, and the eBook explores the concept of modularity and the factors that drive the choice between precast segmental technology and other construction methods. The eBook provides exhaustive coverage of the short-line method, the operations of casting cells for constant- and varying-depth segments, and the geometric design of the bridge for standardized production of pier segments and tendon deviators and geometry adjustment with the typical segments. Thorough guidance is also provided on the generation of the casting curve in relation to erection sequence and time-dependent effects, the geometry control of match casting (inclusive of commercial software programs and how they work) and the progressive correction of the casting errors. Fully integrated within the Bridge Engineering eManuals © project, the eBook also explores the long-line method for varying-depth balanced cantilevers and the dual-track U-segments of light-rail transit bridges, the post-casting operations for all types of segments, different organizations of the stockyard, and segment delivery and epoxy gluing at the erection site. The manual is an indispensable gateway to the monographs of the Bridge Engineering eManuals © project on span-by-span and balanced cantilever construction of precast segmental bridges and the corresponding families of self-launching gantries and lifting frames. The Bridge Engineering eManuals © project provides exhaustive coverage of new and emerging bridge construction technology and modern construction methods for all bridge professionals looking to save time, labor and costs, reduce risk, and increase the value and quality of bridge projects through mechanized construction. The eManuals share format and print styles to be collected into customized books, are immediately downloadable in PDF format from the author's website www.marcorosignoli.com and as Kindle Editions from , and deliver a unique wealth of knowledge and learning. Extracted from the bestseller "Bridge Construction Equipment" • (2013, ICE Publishing) and the second edition of "Bridge Launching" • (2014, ICE Publishing), the eManuals expand the discussion from the 2-day classes of bridge launching and bridge construction technology that the author teaches for the ASCE Continuing Education Program and face-to-face in the offices of bridge owners, designers and constructors to provide exhaustive coverage of the topic. The author may be reached at info@marcorosignoli.com

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