

Technical Manual TM 3-34.22 (FM 3-34.343) / MCRP 3-17.1B Military Nonstandard Fixed Bridging October 2013

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This manual, Technical Manual TM 3-34.22 (FM 3-34.343) / MCRP 3-17.1B Military Nonstandard Fixed Bridging, provides essential technical information on nonstandard fixed bridges for engineer staff officers. It is the doctrinal source of information for the United States (US) Army on the North Atlantic Treaty Organization (NATO) Bridge and Vehicle Classification System. This manual also provides various methods for classifying and designing nonstandard fixed bridges in military theaters of operation (TOs). This manual provides detailed technical data on the classification (analysis) and design of bridges. It is NOT intended to replace civilian classification or analysis codes and procedures and should NOT be used for civilian construction or classification. Engineer officers should note that the methods shown in this manual are for conservative classification and design. Qualified engineers also might use appropriate civilian methods for military classification and design. Appendix A contains an English-to-metric measurement conversion chart. TM 3-34.22 applies to the Active Army, Army National Guard/Army National Guard of the United States, and United States Army Reserve unless otherwise stated. The proponent for this publication is HQ TRADOC, US Army Engineer School (USAES), Directorate of Training. The provisions of this publication are the subject of the following international standardization agreements (STANAGs) and Quadripartite STANAG (QSTAG): STANAG 2010 Engineer (ENGR) (Edition 5), STANAG 2021 ENGR (Edition 5), STANAG 2101 Land Force Tactical Doctrine and Operational Procedures (TOP) (Edition 10), and QSTAG 180 (Edition 4). PART ONE BASIC CONSIDERATIONS Chapter 1 BACKGROUND INFORMATION Chapter 2 RECONNAISSANCE AND PRELIMINARTY INVESTIGATIONS PART TWO CLASSIFICATION, REINFORCEMENT AND REPAIR, AND POSTING Chapter 3 CLASSIFICATION Chapter 4 REINFORCEMENT AND REPAIR Chapter 5 POSTING PART THREE DESIGN Chapter 6 BRIDGE SUPERSTRUCTURES Chapter 7 SUBSTRUCTURE DESIGN Chapter 8 SUSPENSION-BRIDGE DESIGN Chapter 9 CONNECTIONS Chapter 10 CONSTRUCTION Chapter 11 INSPECTION AND MAINTENANCE Chapter 12 BRIDGING IN ARCTIC

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