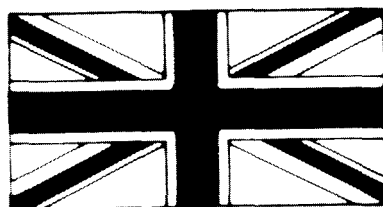


Donald Bailey

1901
1985



PREFACE

This manual is intended for use by engineer commanders, staff officers, combat engineers, and bridge specialists who are required to build the Bailey bridge.

The purpose of this manual is to provide the user instructions needed to build the standard Bailey bridge and its several variants. It describes bridge components, loading and transport, methods of assembly, and maintenance. It also describes special applications, such as two-lane, extra-wide, deck, railway, pier- and barge-supported bridges, and towers built from Bailey bridge components.

The Bailey bridge has several distinctive features. It is built by manpower alone. It is made entirely from prefabricated parts, the most notable of which are its light-steel panels linked by pinned joints. It is a through-type bridge. And it can be moved from one site to another.

The Bailey bridge was invented by *Donald Coleman Bailey*, an English civil engineer. In 1941, Bailey gave his first sketch of the

bridge to the British War Office which paid him the equivalent of \$48,000 in 1985 American currency.

The Bailey bridge used in World War II was designed to be moved, rebuilt, or replaced in several hours, even under enemy fire. It was used widely and well by Allied armies in Italy and northwest Europe, 1943-45. British Field Marshal Lord Bernard Law Montgomery said: "Without the Bailey bridge, we should not have won the war. It was the best thing in that line we ever had." Donald Bailey was knighted in 1946 for this contribution to the Allied victory in World War II.

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