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AERIAL VIEW OF BRIDGE; COLOGNE



REMOVING R.R. BRIDGE; MAINZ



200 TON "A" FRAME; MAINZ



LIFTING STEEL; MAINZ

# Port Construction And Repair

**Roland G. Ruppenthal**



## **Port Construction And Repair:**

**Port Construction and Repair** U. s. Army Engineer School,2005 This manual is a guide and basic reference for engineer units building and rehabilitating ship unloading and cargo handling facilities in the theaters of operations It includes port planning and layout and construction of freed and floating wharves to support both conventional and container ships It covers the special problems of expedient construction of ports and railways on wharves and piers The information concerning facilities for handling and shipping cargo in containers represents current development The manual covers many techniques still in the concept stage The user is cautioned to get the latest information before proceeding with plans The material applies to both nuclear and nonnuclear warfare however in nuclear warfare port construction would be confined to small ports not offering strategic targets to the enemy Obtaining adequate ports early in any overseas operation is very important Securing and using already existing ports is usually better than securing a site and building a new port by conventional methods Old ports require less material time and personnel Old ports often have towns nearby as well as shore facilities such as warehouses roads railways and petroleum oil and lubricants terminals New ports lack all these facilities Generally new ports and temporary landing facilities serve only in the initial phase of an invasion and follow up logistics over the shore operations Since established ports are better beach sites are abandoned as ports as soon as established ports are acquired or rehabilitated Current trends in commercial shipping indicate that 90 percent of all cargo arriving in future theater of operations will arrive by container This method of shipping requires dock and road surfaces capable of withstanding great loads It also requires heavy lift equipment capable of transferring the largest loaded container 40 feet 67 200 pounds from ships up to 1 000 feet long and 115 feet wide Current Army facilities components system port designs must be changed to support such an operation

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new ports and temporary landing facilities serve only in the initial phase of an invasion and follow up logistics over the shore operations. Since established ports are better, beach sites are abandoned as soon as established ports are acquired or rehabilitated. Current trends in commercial shipping indicate that 90 percent of all cargo arriving in the future will arrive by container. This method of shipping requires dock and road surfaces capable of withstanding great loads. It also requires heavy lift equipment capable of transferring the largest loaded container 40 feet 67 200 pounds from ships up to 1 000 feet long and 115 feet wide. Current Army facilities components system AFCS port designs must be changed to support such an operation. Port Construction and Repair, 1999 **Port Construction and Rehabilitation** United States.

Department of the Army, 1964 United States Army in World War 2, Technical Services, The Corps of Engineers: The War Against Germany Alfred M. Beck, 1985 CMH Pub 10 22 By Alfred M Beck et al Describes in detail the role of the Army Corps of Engineers in various military campaigns throughout North Africa and Italy as well as in Western and Central Europe from 1941 through 1944 L C card 84 11376 Item 345 Related Products United States Army in World War 2 The Quartermaster Corps Operations in War Against Japan is available here [https://bookstore.gpo.gov/products/sku/008\\_029\\_00047\\_4](https://bookstore.gpo.gov/products/sku/008_029_00047_4) United States Army and World War II Set 5 of 7 The Technical Services Pt 2 Corps of Engineers Quartermaster and Medical CDROM format is available here [https://bookstore.gpo.gov/products/sku/008\\_029\\_00434\\_8](https://bookstore.gpo.gov/products/sku/008_029_00434_8) United States Army and World War II Set 4 of 7 The Technical Services Pt 1 Chemical Ordnance Transportation and Signal CDROM format is available here [https://bookstore.gpo.gov/products/sku/008\\_029\\_00396\\_1](https://bookstore.gpo.gov/products/sku/008_029_00396_1) World War II resources collection can be found here <https://bookstore.gpo.gov/catalog/world-war-ii> Other products by the U S Army Center of Military History CMH can be found here <https://bookstore.gpo.gov/agency/1061> **Port Engineering** Gregory P. Tsinker, 2004-02-16 This comprehensive book covers all major aspects of the design and maintenance of port facilities including port planning design loads for today's larger vessel size seismic design guidelines and breakwater design. New material addresses environmental concerns the latest developments on inter modal hubs and transfer points and the latest information on port security and procedures being implemented around the world.

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