

# Main Battle Tanks: Developments in Design Since 1945

**Hilmes, Rolf**

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# Main Battle Tanks Developments In Design Since 1945

**Stephen Biddle**



## **Main Battle Tanks Developments In Design Since 1945:**

**Main Battle Tanks** Rolf Hilmes, 1987-01-01      *Before the Brith of the Mbt* Dick Taylor, M. P. Robinson, 2018-11-05 This book is intended to be the first in a short series looking at the major developments of battle tanks by the western nations in the period from the end of the Second World War to the present During WW2 the tank came of age and was probably the predominant land weapon of the period However the tank was never perfected during the war and the post war decades have seen enormous resources expended on trying to do just that to make the tank perfect This of course is an impossible task as threats evolve and mutate and trying to design a vehicle or indeed any weapon of war to do a multitude of different tasks will inevitably lead to compromise Notwithstanding this the development of the modern Chariots of Fire in the 1950s was an utterly fascinating process with ten or more project and trial tank designs rejected for every design actually adopted It was truly an era when technology was evolving rapidly for if the specifications of the late 1940s differed little from the most powerful wartime designs by 1960 the specifications for new battle tanks reflected every tactical implication of NATO s nuclear strategy

**Modern Israeli Tanks and Infantry Carriers 1985-2004** Marsh Gelbart, 2012-05-20 Over the last two decades the Israel Defence Force IDF has introduced a variety of new AFVs Old models such as the M48 and M60 have been improved beyond recognition in the form of the Magach 7 The performance of Israel s indigenous Merkava tank has been similarly enhanced with new variants and the new Merkava 4 MBT has recently entered service Israeli infantry have also received machines such as the Achzarit assault carrier the Puma combat engineer vehicle and the Nagmachon and Nakpadon tank based carriers intended for low intensity conflicts This book examines the design modification and combat history of these formidable fighting machines

**Breaking the Mold** Kendall D. Gott, 2006 Few lessons are as prevalent in military history as is the adage that tanks don t perform well in cities The notion of deliberately committing tanks to urban combat is anathema to most In *Breaking the Mold Tanks in the Cities* Ken Gott disproves that notion with a timely series of five case studies from World War II to the present war in Iraq This is not a parochial or triumphant study These cases demonstrate that tanks must do more than merely arrive on the battlefield to be successful in urban combat From Aachen in 1944 to Fallujah in 2004 the absolute need for specialized training and the use of combined arms at the lowest tactical levels are two of the most salient lessons that emerge from this study When properly employed well trained and well supported units led by tanks are decisive in urban combat The reverse also is true Chechen rebels taught the Russian army and the world a brutal lesson in Grozny about what happens when armored units are poorly led poorly trained and cavalierly employed in a city The case studies in this monograph are high intensity battles in conflicts ranging from limited interventions to major combat operations It would be wrong to use them to argue for the use of tanks in every urban situation As the intensity of the operation decreases the 2nd and 3rd order effects of using tanks in cities can begin to outweigh their utility The damage to infrastructure caused by their sheer weight and size is just one example of what can make tanks

unsuitable for every mission Even during peace operations however the ability to employ tanks and other heavy armored vehicles can be crucial Breaking the Mold provides an up to date analysis of the utility of tanks and heavy armored forces in urban combat The U S Army will increasingly conduct combat operations in urban terrain and it will be necessary to understand what it takes to employ tanks to achieve success in that battlefield environment **Armor** ,1968 **Breaking The Mold: Tanks In The Cities [Illustrated Edition]** Kendall D. Gott,2014-08-15 Illustrated with 30 maps Few lessons are as prevalent in military history as is the adage that tanks don t perform well in cities The notion of deliberately committing tanks to urban combat is anathema to most In Breaking the Mold Tanks in the Cities Mr Ken Gott disproves that notion with a timely series of five case studies from World War II to the present war in Iraq This is not a parochial or triumphant study These cases demonstrate that tanks must do more than merely arrive on the battlefield to be successful in urban combat From Aachen in 1944 to Fallujah in 2004 the absolute need for specialized training and the use of combined arms at the lowest tactical levels are two of the most salient lessons that emerge from this study When properly employed well trained and well supported units led by tanks are decisive in urban combat The reverse is also true Chechen rebels taught the Russian army and the world a brutal lesson in Grozny about what happens when armored units are poorly led poorly trained and cavalierly employed in a city The case studies in this monograph are high intensity battles in conflicts ranging from limited interventions to major combat operations It would be wrong to use them to argue for the use of tanks in every urban situation As the intensity of the operation decreases the second and third order effects of using tanks in cities can begin to outweigh their utility The damage to infrastructure caused by their sheer weight and size is just one example of what can make tanks unsuitable for every mission Even during peace operations however the ability to employ tanks and other heavy armored vehicles quickly can be crucial A study on the utility of tanks in peace operations is warranted and planned Timothy R Reese Colonel Armor [M1 Abrams](#) Christian DeJohn,2018 Since the 1980s the American M1 Abrams series of tanks has been widely regarded as among the finest main battle tanks in the world This volume is a concise look at the background development and Army and Marine operational history of the Abrams from the 1970s to the present The author who brings a unique perspective and authority as a former M1A1 tank gunner with the United States Army s 1 104th Cavalry was granted behind the scenes access to photograph the US Army s collection of rare tanks at Fort Benning Georgia He also shows the Abrams tank s service in lesser known places not just Iraq and Afghanistan such as Cold War Germany Bosnia Herzegovina Somalia and others Part of the Legends of Warfare series Publisher description **Patton** R. P. Hunnicutt,2015-05-15 This ambitious entry in R P Hunnicutt s 10 volume compendium of American tank history details the development of the Patton tanks including the M60 series as well as other vehicles based on the tank chassis or employing other elements of the tank s design First developed in the period between WWII and the Korean War various iterations of the Patton armored military vehicle have served as a crucial component of American military operations in all manner of engagements Hunnicutt spares

no detail as he examines the origins and deployment of the M46 and M47 in the early days of the Cold War and for the duration of the Korean War As the conflict escalated increasing numbers of Patton tanks were deployed in Korea and many remained after the armistice to protect the tenuous agreement Developed to replace the M47 Patton and M4 Sherman the M48 Patton main battle tank boasted a variety of technical improvements and was relied upon heavily throughout the Vietnam War with over 600 individual tanks deployed alongside U S forces during the war Hunnicutt provides detailed technical information about these vehicles and their role in the U S Army and Marines The M60 product improved descendant of the Patton tanks and its many variations is also treated with exacting detail by Hunnicutt who takes us through the numerous and important variations on the Patton design Spanning the history of America s most widely used main battle tank Hunnicutt s Patton is an absolute must have for anyone interested in the history of the American military Richard Pearce Hunnicutt 1926 2011 enlisted in the 7th Infantry Division in 1944 and in 1945 was promoted to sergeant and awarded the Silver Star for his heroic actions After WWII Hunnicutt earned a Masters in engineering from Stanford University under the GI Bill In addition to being one of the most respected metallurgists in California Hunnicutt wrote the definitive 10 volume history of the development and employment of American armored vehicles As a tank historian and leading expert in the field Hunnicutt was one of the founders of the US Army Ordnance Museum at Aberdeen Proving Ground MD and was a close friend and frequent contributor to the Patton Museum at Fort Knox KY

*The Tank Debate* John Stone, 2018-12-07 In The Tank Debate John Stone highlights the equivocal position that armour has traditionally occupied in Anglo American thought and explains why despite frequent predictions to the contrary the tank has remained an important instrument of war This book provides a timely and provocative study of the tank s developmental history against the changing background of Anglo American military thought

*Design and Development of Fighting Vehicles* Richard M. Ogorkiewicz, 1968

**Superpowers in Economic Decline** Richard Cohen, Peter A. Wilson, 2021-05-30 This book first published in 1990 evaluates what future policy adjustments the US will have to make in order to successfully navigate through a national security environment radically altered from that of the past and one determined more than at any point in the post war period by the economic performance of both superpowers The structure of the book centres around two issues that will determine the future national security environment facing the US Discussed are stakes of the threat the response of the Soviet Union to the challenge of economic and related social political decline and its implications for the Soviet national defence effort Also studied are the resources available to the US to meet the threat the status of the US economic performance and the magnitude of resource stress it is likely to face in the future and its probable impact on the US national defence effort

**Military Organizations, Complex Machines** Chris C. Demchak, 2018-10-18 Chris Demchak explores the reasons why military machines surprise their users and how they can change both the complexity and effectiveness of tactical organizations She uses the Army s experiences with its M1 Abrams tank as well as other examples to explain the interaction of complex technology and

militaries that seek to control uncertainty Under some conditions Demchak demonstrates complexity in critical machines induces increased complexity in the organizations that use them and can produce an army different from the one that was intended Drawing on organization theory and her data she argues that understanding this interaction will heavily influence whether armed forces reductions savings and modernization produce rapid successful military organizations or lethally unpredictable ones

**Seek, Strike, and Destroy** Christopher Richard Gabel,1986 In the seventy years that have passed since the tank first appeared antitank combat has presented one of the greatest challenges in land warfare Dramatic improvements in tank technology and doctrine over the years have precipitated equally innovative developments in the antitank field One cycle in this ongoing arms race occurred during the early years of World War II when the U S Army sought desperately to find an antidote to the vaunted German blitzkrieg This Leavenworth Paper analyzes the origins of the tank destroyer concept evaluates the doctrine and equipment with which tank destroyer units fought and assesses the effectiveness of the tank destroyer in battle

*Nonstate Warfare* Stephen Biddle,2022-07-26 How nonstate military strategies overturn traditional perspectives on warfare Since September 11th 2001 armed nonstate actors have received increased attention and discussion from scholars policymakers and the military Underlying debates about nonstate warfare and how it should be countered is one crucial assumption that state and nonstate actors fight very differently In *Nonstate Warfare* Stephen Biddle upturns this distinction arguing that there is actually nothing intrinsic separating state or nonstate military behavior Through an in depth look at nonstate military conduct Biddle shows that many nonstate armies now fight more conventionally than many state armies and that the internal politics of nonstate actors their institutional maturity and wartime stakes rather than their material weapons or equipment determines tactics and strategies Biddle frames nonstate and state methods along a continuum spanning Fabian style irregular warfare to Napoleonic style warfare involving massed armies and he presents a systematic theory to explain any given nonstate actor's position on this spectrum Showing that most warfare for at least a century has kept to the blended middle of the spectrum Biddle argues that material and tribal culture explanations for nonstate warfare methods do not adequately explain observed patterns of warmaking Investigating a range of historical examples from Lebanon and Iraq to Somalia Croatia and the Vietcong Biddle demonstrates that viewing state and nonstate warfighting as mutually exclusive can lead to errors in policy and scholarship A comprehensive account of combat methods and military rationale *Nonstate Warfare* offers a new understanding for wartime military behavior

*Toward Combined Arms Warfare* Jonathan Mallory House,1985

**Soviet/Russian Armor and Artillery Design Practices** ,1995

**Challenger Main Battle Tank 1982-97** Simon Dunstan,2022-04-28 The successor to the Chieftain from the 1960 s work began in 1976 on development of a new MBT specifically for the Iranian army who needed a more capable tank than the Chieftain to suit their climatic and geographical conditions However once the revolution occurred in 1979 the British army was reluctantly forced to accept this new design themselves Once in service there were technical

problems resulting in various modifications However the Challenger would go on to great success in the Gulf War playing crucial roles in both Desert Storm and Desert Sabre operations In this book Simon Dunstan examines this tank in detail evaluating its performance both on the test range and in the field of battle      **Panzer IV vs Char B1 bis** Steven J. Zaloga,2011-12-20 The Battle of France in 1940 involved the first large scale tank against tank battles in history The massive clashes at Stonne Hannant and Gembloux involved hundreds of tanks on both sides yet have faded from memory due to the enormity of the French defeat This book examines two of the premier opposing tanks of the Wehrmacht and the French Army the German PzKpfw IV and the French Char B1 bis With a complete history of the design development and deployment of these armoured fighting vehicles the story of these great battles is once again brought to life      **Camp Colt to Desert Storm** George F. Hofmann,Donn A. Starry,2014-04-23 The tank revolutionized the battlefield in World War II In the years since additional technological developments including nuclear weapons ballistic missiles computer assisted firing and satellite navigation have continued to transform the face of combat The only complete history of U S armed forces from the advent of the tank in battle during World War I to the campaign to drive Iraq out of Kuwait in 1991 Camp Colt to Desert Storm traces the development of doctrine for operations at the tactical and operational levels of war and translates this fighting doctrine into the development of equipment      **Air University Library Index to Military Periodicals** ,1998

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