



Main Battle Tanks

R. P. Hunnicutt



Main Battle Tanks:

Abrams R. P. Hunnicutt, 2015-09-15 This installment in R P Hunnicutt's ambitious 10 volume series on the history of American tanks covers the development of the American main battle tank from its conception in the 1950s through the production and standardization of the M1 Abrams main battle tank. In the 50s as the M48 Patton was gearing up for production, there was a great deal of interest in developing new design concepts for future armored fighting vehicles. Many of these ideas made up the early foundations of the tank that would become the M1 Abrams 30 years later. This was a very fertile and productive period for combat vehicle development and Hunnicutt covers nearly every detail of it with his trademark precision and diligence. Many of the wildly radical design concepts considered in the 50s and 60s proved to be impractical, but a number went on to be applied with great success to the Patton and its product improved M60 series. In fact, the M60 was used as an interim tank pending the development of a standardized main battle tank. The project was eventually reoriented as an effort to design an effective tank at a specified reasonable cost. After competing for the contract against GM, Chrysler set out to design the tank that was designated as the XM1. This is the design that became standardized as the M1 Abrams and was introduced to troop service in 1981. It has since been improved with more powerful armaments and tougher armor as the 120mm gun tank M1A1. Hunnicutt meticulously traces the entire span of the M1's development with the keen detail-oriented eye that has made him a renowned figure in the world of military history. Boasting dozens of photographs, line drawings, and figures in addition to Hunnicutt's painstakingly thorough research, *Abrams: A History of the American Main Battle Tank* is a must-have for anyone with a profound interest in American military history. Readers interested in related titles from R P Hunnicutt will also want to see *Armored Car* ISBN 9781626541559, *Bradley* ISBN 9781626542525, *Half Track* ISBN 9781626541320, *Patton* ISBN 9781626548794, *Pershing* ISBN 9781626541672, *Sheridan* ISBN 9781626541542, *Sherman* ISBN 9781626548619, *Stuart*, *History of the American Light Tank Vol 1* ISBN 9781626548626, *Firepower* ISBN 9781635615036.

Main Battle Tank Niall Edworthy, 2010-08-05 The British Army's Challenger II Main Battle Tank is one of the most awesome war machines ever built. In March 2003, three Squadrons of Challenger 2s from the Royal Scots Dragoon Guards, part of Britain's 7th Armoured Brigade, the famed Desert Rats, gathered in Southern Iraq to prepare for battle. The Army's newest Big Guns were going to war for the first time. But Operation TELIC was a war which the Challenger 2, designed to operate in the fog and mud of the Central European Plain, had never been expected to fight. And one that would quickly break every rule of tank warfare, including the golden maxim: never take a tank into a town. In *Main Battle Tank*, author Niall Edworthy, granted unprecedented access to the Scots DGs, tells the story of an extraordinary chapter in the history of the British Army. From the terrifying rescue of a stricken Challenger 2 and countless nerve-shredding raids into Basra and Al Zubayr to the biggest tank engagement fought by the British since the end of WWII, *Main Battle Tank* is the brutal, blistering true story of a war that tested man and machine to the bloody limit.

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.

Tanks Marsh Gelbart, 1996. The role of the armoured fighting vehicle (AFV) on the battlefield is probably the subject of more discussion now than at any time in recent history. From the formidable main battle tank to the light armoured personnel carrier, the variety and role of these versatile vehicles is extensive. This work details the equipment to be found in current use throughout the world. [Main Battle Tanks](#)

Source: Wikipedia, 2013-09. Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online.

Pages 34. Chapters: Main battle tank.

Main Battle Tanks Michael Green, Gladys Green, 2004. Describes the M1A1 Abrams tank, including its history, equipment, weapons, tactics, and future use with the U.S. Army. Includes photo diagram.

Soviet T-55 Main Battle Tank James Kinnear, Stephen Sewell, 2019-09-19. A highly illustrated study of the T-55 Main Battle Tank and its variants that formed the backbone of the Soviet Army during the years of the Cold War. The T-55 is one of the most iconic weapons created by the Soviets during the Cold War and also one of the most widely deployed weapons in history. Like its younger brother, the T-54, the T-55 enjoyed a long career in the Red Army and even into the early days of the reformed Russian Army. Under their control, it saw very little combat use or deployments, but it was widely sold to

other nations and participated in many of the wars and combat operations from the mid 1960s to the present The T 55 has been employed in almost every conflict in the Middle East and Africa from its introduction into service Even today the tank is still employed by both sides in the Syrian Civil War and they are also in service with Kurdish forces in the struggle against ISIS in the northern part of Iraq Containing more than 400 stunning contemporary and modern photographs and written by two experts on Soviet armour this authoritative book tells the complete story of the T 55 one of the most widely produced tanks of all time *Main Battle Tanks* John Nicholas,1989 Explores the different kinds of tanks and their military uses by various countries **M1A2 Abrams Main Battle Tank 1993-2018** Steven J. Zaloga,2019-03-21 Since the Gulf War the Abrams tank has undergone a transformation while fighting in conflicts across the world Its M1A1 and M1A2 variants have seen great improvements made to this iconic tank including in fire control armour protection and thermal imaging technology Involvement in the conflicts in Iraq and Afghanistan necessitated a number of upgrades and modifications as the United States fought two of its longest wars Recent years have seen new variants of the series such as the ABV Assault Breacher Vehicle and M104 Wolverine Heavy Assault Bridge Over the past few decades the M1A1 Abrams has also been extensively exported and is license produced in Egypt The long awaited follow up to NVG 2 M1 Abrams Main Battle Tank 1982 92 1993 this fully illustrated study examines the Abrams tanks last quarter century of service with both the United States and its various foreign operators with a focus on its combat history **The M1 Abrams Main Battle Tank** Steve Parker,2007-07 Provides an in depth look at the M1 Abrams Main Battle Tank with detailed cross section diagrams photographs and additional facts and information Soviet T-62 Main Battle Tank James Kinnear,Stephen Sewell,2021-05-13 A highly illustrated study of the T 62 Main Battle Tank and its variants that formed the backbone of the Soviet Army during the years of the Cold War The T 62 is one of the most widespread tanks used by the Soviets during the Cold War Developed from the T 55 the T 62 enjoyed a long career in the Red Army and even into the early days of the reformed Russian Army It was the principal tank used by Soviet forces in the Soviet Afghan War and went on to see service with Russian forces in Chechnya and South Ossetia It has also been employed in almost every conflict in the Middle East and Africa from its introduction into service It remains in service with many countries throughout the world and has seen a great deal of use in the Syrian Civil War Containing more than 400 stunning contemporary and modern photographs and written by two experts on Soviet armour this authoritative book tells the complete story of the T 62 **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

Collaborative Development of Main Battle Tanks Thomas L. McNaughter, Rand Corporation, 1981 Examines the U S West German effort to collaborate in the development of main battle tanks The effort began in 1963 with the MBT 70 program an ambitious cooperative attempt to develop a single tank Because the two armies could not reconcile their differing concepts of tanks and tank warfare this effort produced a complex and expensive tank and increasing duplicative development work in each nation In 1969 the program was abandoned and each nation set about developing its own tank Collaboration was suggested again in 1973 this time as an effort either to sell West Germany's Leopard II to the U S Army or to trade components across ongoing national development programs The latter effort produced an agreement to mount the German 102mm gun on later versions of the U S XM 1 tank but this amount of collaboration succeeded only after substantial political debate in the Congress The note discusses major impediments to collaboration in these cases and suggests strategies for future collaboration on armored vehicles Author Critical Considerations in the Acquisition of a

New Main Battle Tank, Department of Defense United States. General Accounting Office, 1976 **Modelling the T-55**

Main Battle Tank Nicola Cortese, Samuel Dwyer, Graeme Davidson, 2012-02-20 The T 55 tank first appeared in 1958 a result of numerous improvements made to the 1949 T 54 series and with a lineage stretching back to the wartime T 34 and the T 44 The T 55 series has seen service around the world with many armed forces including the Warsaw Pact countries Afghanistan Angola Cambodia China Croatia Egypt Iran North Korea Poland Somalia Sudan and Vietnam and has seen action in key modern conflicts most recently in the two Gulf Wars This title showcases the talents of several leading modellers and presents Serbian Iraqi Czech Syrian and Russian variants across 1 35 and 1 72 scales It also features several challenging projects that involve extensive scratchbuilding

T-62 Main Battle Tank 1965-2005 Steven J. Zaloga, 2011-10-20 The Soviet Army hastily developed the T 62 in a struggle to compete against the rapid proliferation of NATO tanks in the 1960s It was essentially a modification of the widely manufactured T 55 tank with the addition of a new 115mm gun Within the USSR itself the T 62 was quickly superseded but it was widely exported becoming a critical component of the Egyptian and Syrian armies in the 1973 Yom Kippur conflict and heavily influenced later designs of the M1 Abrams and Challenger tanks In the first English language history of this tank Steven Zaloga examines the development of the T 62 using detailed combat descriptions to bring to life the operational history of this tank from the deserts of the Sinai to the harsh terrain of Afghanistan

T-72 Main Battle Tank 1974-93 Steven J. Zaloga, 2013-08-20 The Russian T 72 Ural tank was the most widely deployed main battle tank of its generation Used by the armies of the former Warsaw pact and Soviet Union it has also been exported in large numbers to many of the states in the Middle East This book reveals the previously secret history behind the tank Steven J Zaloga examines the conditions under which the T 72 was designed and produced Technical aspects of the weapon are also discussed including its EDZ reactive armour which when it first appeared in December 1984 gave NATO a nasty shock

Sagger Anti-Tank Missile vs M60 Main Battle Tank Chris McNab, 2018-01-25 The 1973 Yom Kippur War rewrote the textbook on the tactics of modern armored warfare Unlike the previous major Arab Israeli war of 1967 the Israeli Defense Forces IDF faced an enemy that had invested heavily in modern Soviet weapon systems and tactics Using detailed colour artwork and insightful analysis this book explains how the effective use of the Soviet supplied AT 3 Sagger 9M14 Malyutka anti tank missile allowed small Arab tank killing teams to destroy Israeli armor at an astonishing rate It also analyses the tank that opposed it the US built M60A1 which had to fight for survival against the Arab Sappers and shows how in both the Sinai and the Golan Heights the IDF quickly learned that firepower and infantry artillery cooperation were the keys to their survival

M60 Main Battle Tank 1960-91 Richard Lathrop, John McDonald, 2012-09-20 Entering service in the early 1960s the M60 tank was in production for 23 years and formed the backbone of US Army and Marine armoured units during the Cold War Over 15 000 were built in four basic models the M60 M60A1 M60A2 and the M60A3 Although the M60 had been phased out of US Army service by the time Iraq invaded Kuwait in 1990 M60s were amongst the first Allied tanks to enter Kuwait City with the US Marines This book examines the design and deployment of the M60 a very widely used vehicle that is still in service today

US Cold War Tanks and Armoured Fighting Vehicles Michael Green, 2020-11-12 This expert study of the U S military's armored vehicles deployed during the Cold War features rare photographs from the wartime archives To counter the Soviet threat and that of their client States during the Cold War years 1949 1991 the American military deployed an impressive range of main battle tanks and armored fighting vehicles Expert author Michael Green presents a detailed study of these vehicles and their variants in this informative volume of stunning wartime photographs The Patton series of medium main battle tanks including the M46 M47 and M48 supplemented by the M103s Heavy Tank initially formed the core of the US tank fleet In 1960 the M60 MBT entered service and in turn was replaced by the M1 Abrams in 1980 In support were armored reconnaissance vehicles progressively the M41 bull dog 1951 the M114 1961 the M551 Sheridan 1967 and M3 Bradley Cavalry Fighting Vehicle 1981 The armored personnel carrier range included the ubiquitous M113 and its replacement the M2 Bradley cousin of the M3 All of these vehicles are covered in this highly detailed volume in the Images of War series

Main Battle Tanks Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Main Battle Tanks**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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web start with 8.3 mole H₂S and multiply it with 2 mole H₂O over 2 mole H₂S from the equation

$$8.3 \text{ mole H}_2\text{S} \times \frac{2 \text{ mole H}_2\text{O}}{2 \text{ mole H}_2\text{S}} = 8.3 \text{ mole H}_2\text{O}$$

8.3 mole H₂O $\times$ 18 g H₂O / mole H₂O = 149.4 g H₂O is your theoretical yield so percent yield = $\frac{137.1 \text{ g H}_2\text{O}}{149.4 \text{ g H}_2\text{O}} \times 100 = 91.77\%$ problems 6 8 are similar to problem 5

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$$\text{C}_3\text{H}_6 + 3\text{O}_2 \rightarrow 3\text{CO} + 3\text{H}_2\text{O}$$

if the reaction of 21.3 grams of O₂ produces a 47.3% yield how many grams of CO would be produced step one figure out how many moles of the limiting reagent you have

$$21.3 \text{ g O}_2 \times \frac{1 \text{ mole O}_2}{32 \text{ g O}_2} = 0.666 \text{ moles O}_2$$

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web a write a balanced equation for the reaction

$$4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$$

b determine the theoretical yield of Al₂O₃

$$160.0 \text{ g Al} \times \frac{1 \text{ mole Al}}{27 \text{ g Al}} \times \frac{2 \text{ mole Al}_2\text{O}_3}{4 \text{ mole Al}} \times 101.96 \text{ g Al}_2\text{O}_3 = 150.0 \text{ g Al}_2\text{O}_3$$

c determine the percent yield

yield actual x 100 260 0 g x 100 86 01 theoretical 302 3 g

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web 7 na 2 c 2 o 4 is the limiting reactant percent yield 86 6 8 only four molecules can be made 9 this amount cannot be weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12 c is the limiting reagent 4 33 g of h 2 are left over 13

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iodine v oxide i2o5 reacts with 28 0 grams of carbon monoxide co determine the mass of iodine i2 which could be produced
80 g i2o5 1 mol i2o5 1 mol i2 xs 1 333 8 g i2o5 1 mol i2o5 28 g co 1 mol co

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