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the us army had a unique tactical doctrine during world war ii placing the emphasis for tank fighting on its tank destroyer command whose main early war vehicle was the m10 3 inch gun motor carriage based on the reliable m4a2 sherman tank chassis this durable and versatile vehicle saw combat service from the north africa campaign in 1943 by 1944 its gun was not powerful enough and it was rearmed with the new 90 mm gun becoming the m36 90mm gun motor carriage this book details one of the only us armoured vehicles capable of dealing with the panther and tiger during the battle of the bulge

hitler first considered an invasion of great britain in autumn 1940 then scheduled operation barbarossa the conquest of the european part of the soviet union for may 1941 anxious to emulate hitler s successes the italian dictator mussolini embarked upon unnecessary military adventures in north africa and the balkans which forced hitler s intervention diverting and depleting precious german resources and a six week postponement of barbarossa in this second of four volumes men at arms 311 316 326 330 on the german army of the second world war nigel thomas examines the uniforms and insignia of the forces involved in north africa and the balkans

in december 1989 us army forces supported by the us air force and us navy participated in operation just cause the invasion of panama a combination of airborne helicopter and ground assaults quickly secured key objectives and eliminated organized resistance beginning with a brief history of us panama relations and the development of the panamanian defense forces this book focuses principally on the military aspects of operation just cause and ends with a summary of the conflict s aftermath numerous photographs and detailed color plates depict the actions of the armed forces units that executed this difficult and controversial operation

seminar paper from the year 2007 in the subject politics topic development politics grade keine graduate institute masterstudies institut universitaire détudes du développement genf course coopération internationale au développement language english abstract the speech of former president of the united states harry s truman in 1949 for the foundation of the nato has often also been seen as the beginning of the whole development aid engagement in his clear words in addition we will provide military advice and equipment to free nations which will cooperate with us in the maintenance of peace and security fourth we must embark on a bold new program for making the benefits of our scientific advances and industrial progress available for the improvement and growth of underdeveloped areas although die international system changed dramatically old enemies vanished whereas new ones arose the issue of security is still and since september 9 11 will be an even more essential topic within the discussion of development it is to emanate that this close linkage between development and security has always had an impact on the behavior of the donor community and is now once again in the focus of a debate concerning new approaches such as the security sector reform ssr and a broadening of the oda definition due to the rising demand of peace and security in the development business

one of the key objectives of british forces on d day was the capture of the strategically vital city of caen general montgomery saw caen as the key to normandy and the springboard for the allied breakout but so did the germans and the city did not fall it took three major offensives and more than 30 bloody days of struggle to finally take caen in the process the city was controversially devastated and its civilian population decimated the allies paid a high price for caen but the horrific german casualties bled their forces in normandy white in this concise illustrated volume ken ford shows how caen helped open the way for the american breakout in operation cobra

the breech loading single shot 458in martini henry rifle has become a symbol of both the anglo zulu war of 1879 and the numerous battles in egypt and the sudan in 1884 85 but continued to be used by both british and colonial troops well into the 20th century its invention and introduction into british service were in direct response to the success of the prussian dreyse needle gun which demonstrated that the breech loading rifle offered faster loading improved accuracy and superior range significantly the weapon could be loaded and fired from a prone position thus offering the rifleman greater security on the battlefield due to the longevity of service many martini henry rifles survive today both in museums and in private collections and the weapon is highly prized by shooting enthusiasts featuring specially commissioned full colour artwork and an array of arresting first hand accounts and written by an authority on warfare in the victorian era this engaging study

tells the story of the powerful martini henry and its impact on the battlefield from the anglo zulu war to the opening months of world war i

this volume documents the presentations of a multilingual online conference on digitalization as a challenge for justice and administration held in march 2022 the contributions of the international team of authors provide insights into central issues of this highly relevant subject from african japanese u s swiss latin american and german perspectives the result is a multifaceted picture of digitalization in the context of public private and even criminal law este volumen documenta las presentaciones de una conferencia multilingüe en línea sobre la digitalización como reto para la justicia y la administración celebrada en marzo de 2022 las contribuciones del equipo internacional de autores ofrecen una visión de las cuestiones centrales de este tema de gran actualidad desde las perspectivas africana japonesa estadounidense suiza latinoamericana y alemana el resultado es una imagen multifacética de la digitalización en el contexto del derecho público privado y penal der vorliegende tagungsband dokumentiert die vorträge einer im märz 2022 durchgeführten multilingualen online konferenz zur digitalisierung als herausforderung für justiz und verwaltung die beiträge des internationalen autorenteams vermitteln einblicke in zentrale fragestellungen der hochaktuellen thematik aus afrikanischer japanischer us amerikanischer schweizerischer lateinamerikanischer und deutscher perspektive dabei ergibt sich ein facettenreiches bild zur digitalisierung im öffentlich rechtlichen privatrechtlichen und auch strafrechtlichen kontext

a concise history of the unique integrated commando style brigade of us and canadian volunteers formed in 1942 hand picked and trained in airborne amphibious mountain and winter warfare demolitions and close quarter tactics they left a combat legacy still recognized amongst today s special forces this book explores the remarkable results the fssf achieved in italy in the harsh mountain fighting on the winter line in the trenches of anzio and in the breakthrough to rome accompanied by unique combat photography and illustrations of their distinctive uniforms this is an insight into a famous but little explored unit

known for the distinctive sharkmouth decoration on their noses p 40 fighters first saw combat in china during world war ii their most common adversary was the japanese nakajima ki 43 nicknamed oscar carl molesworth describes and explains the design and development of these two foes the products of two vastly different philosophies of fighter design the p 40 was heavily armed and sturdy with armour protection and self sealing fuel tanks but paid for this with the loss of speed and a sluggish performance at altitude the ki 43 was a rapier to the battleaxe p 40 and the ki 43 was immensely nimble though with less firepower and durability this book examines these two different fighters and the pilots who flew them over china with an action packed text rare photographs and digital artwork

a vietnam veteran explains the composition capabilities equipment and missions of the us army and marine corps helicopter and airmobile units in the vietnam war and exactly how they carried out their missions this compact yet detailed volume centers on the classic airmobile assault mission how it was planned and prepared how the troop carrying slicks and their gunship escorts and support teams actually operated and the opposition and hazards that they faced on the lz the text is illustrated with wartime photos organization charts and color plates showing both the machines and the tactics that where employed

bill gates recently told wired that if he were a teenager today he would be hacking biology if you want to change the world in some big way he says that s where you should start biological molecules the most disruptive force on the planet resides in dna biotech companies and academic researchers are just beginning to unlock the potential of piecing together life from scratch champions of synthetic biology believe that turning genetic code into lego like blocks to build never before seen organisms could solve the thorniest challenges in medicine energy and environmental protection but as the hackers who cracked open the potential of the personal computer and the internet proved the most revolutionary discoveries often emerge from out of the way places forged by brilliant outsiders with few resources besides boundless energy and great ideas in biopunk marcus wohlsen chronicles a growing community of diy scientists working outside the walls of corporations and universities who are committed to democratizing dna the way the internet did information the biohacking movement now in its early heady days aims to unleash an outbreak of genetically modified innovation by making the tools and techniques of biotechnology accessible to everyone borrowing their idealism from the worlds of open source software artisinal food internet startups and the peace corps biopunks

are devoted advocates for open sourcing the basic code of life they believe in the power of individuals with access to dna to solve the world s biggest problems you ll meet a new breed of hackers who aren t afraid to get their hands wet from entrepreneurs who aim to bring dna based medical tools to the poorest of the poor to a curious tinkerer who believes a tub of yogurt and a jellyfish gene could protect the world s food supply these biohackers include a duo who started a cancer drug company in their kitchen a team who built an open source dna copy machine a woman who developed a genetic test in her apartment for a deadly disease that had stricken her family along with the potential of citizen science to bring about disruptive change wohlsen explores the risks of diy bioterrorism the possibility of genetic engineering experiments gone awry and whether the ability to design life from scratch on a laptop might come sooner than we think

this book focuses on field marshal von rundstedt and army group south tasked with the capture of the ukraine and crimea operation barbarossa germany s surprise assault on the soviet union in june 1941 aimed at nothing less than the complete destruction of communist russia von rundstedt s 46 divisions and single panzer group faced fierce resistance from the best equipped trained and commanded units in the red army but ultimately succeeded in destroying the soviet 6th and 12th armies at uman before inflicting a further 600 000 casualties at kiev here von rundstedt s five month advance to rostov is examined in detail

im digitalen zeitalter bieten medien kindern und jugendlichen verschiedene möglichkeiten zur unterhaltung kommunikation und selbstdarstellung gleichzeitig sind mit der nutzung digitaler medien auch gefahren verbunden wie begegnet der jugendmedienschutz den potenziellen risiken welche bedeutung kommt der medienerziehung zu und welche funktion können in diesem kontext die eltern übernehmen diese fragen stehen im mittelpunkt dieses bandes der reihe medienbildung und gesellschaft neben einer erörterung der gegenwärtig diskutierten gefahren der mediennutzung und den wirkungsmöglichkeiten des institutionellen jugendmedienschutzes werden auf der basis einer empirischen studie befragung von elternpaaren aktuelle erkenntnisse zum medienerziehungshandeln in familien geliefert

join the generations of students who have embarked on successful careers with a firm foundation in the theory and practice of blood banking and transfusion practices denise harmeningÕs classic text teaches you not only how to perform must know tests and tasks but to understand the scientific principles behind them

this book offers a thorough examination of frailty covering its complexity through sections on foundational concepts pathogenesis research assessment methods management strategies care settings its relation to other chronic conditions and societal implications it provides a deep understanding of frailty s scientific basis advanced assessment tools innovative management and prevention approaches and examines frailty within diverse care settings and in relation to other health conditions by integrating multidisciplinary insights it presents a holistic view of frailty addressing its clinical societal and policy related aspects aiming to enhance well being and inform clinical practitioners educators and policymakers this book can serve as a reference guide with up to date information on frailty in older adults for geriatric medicine physicians primary care clinicians geroscience researchers nurses therapists of pt st and social workers

summary geoprocessing with python teaches you how to use the python programming language along with free and open source tools to read write and process geospatial data purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology this book is about the science of reading analyzing and presenting geospatial data programmatically using python thanks to dozens of open source python libraries and tools you can take on professional geoprocessing tasks without investing in expensive proprietary packages like arcgis and mapinfo the book shows you how about the book geoprocessing with python teaches you how to access available datasets to make maps or perform your own analyses using free tools like the gdal numpy and matplotlib python modules through lots of hands on examples you ll master core practices like handling multiple vector file formats editing geometries applying spatial and attribute filters working with projections and performing basic analyses on vector data the book also covers how to manipulate resample and analyze raster data such as aerial photographs and digital elevation models what s inside geoprocessing from the ground up read write process and analyze raster data visualize data with matplotlib write custom geoprocessing tools three additional appendixes available online about the reader to read this book all you need is a basic knowledge of python or a similar programming language about the author chris garrard works as a developer for utah state university and teaches a graduate

course on python programming for gis table of contents introduction python basics reading and writing vector data working with different vector file formats filtering data with ogr manipulating geometries with ogr vector analysis with ogr using spatial reference systems reading and writing raster data working with raster data map algebra with numpy and scipy map classification visualizing data appendixes a installation b references c ogr online only d osr online only e gdal online only

a concise thoroughly illustrated guide into the island battle that would end world war ii by the spring of 1945 the allies were sweeping all before them in the pacific war against japan and a series of victories had reclaimed many of the islands and territories seized by the imperial japanese forces in the early months of the war the dark days of humiliating defeat were far behind the unstoppable allied juggernaut victory was now assured the question was where the last battle would be fought that place was the island of okinawa with black and white as well as colour illustrations throughout this book details the struggle for the island as us marines and army units battled determined japanese defenders in the final moments of the war

the world s first self powered machine gun the maxim gun became a potent symbol of victorian colonialism in the closing years of the 19th century it was the brainchild of sir hiram maxim the american born firearms inventor who founded the company bearing his name with financing from albert vickers who became the company s chairman maxim s company was absorbed by vickers sons and company in 1897 subsequent variants in british german and russian service the 303in vickers 1912 7 92mm mg 08 1908 and 7 62mm pm m1910 respectively dominated both the eastern and western fronts during world war i and soldiered on into world war ii while the vickers remained in front line british service essentially unchanged until 1968 featuring specially commissioned full colour artwork and written by a noted authority this is the engaging story of the maxim and its descendants the innovative rapid fire weapons that saw combat with british german russian and other forces in the late victorian era and throughout the world wars

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