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an improvement over the bell x 1 the first plane to break the sound barrier in level flight the x 1a was designed to reach mach 2 0 initial test flights commenced in january of 1953 on december 12th test pilot charles chuck yeager set a record with the aircraft reaching a speed of mach 2 43 at 75 000 feet in 1954 pilot maj arthur murray flew the plane to a new altitude record of 90 440 feet roughly a year later the x 1a was severely damaged by an explosion while strapped to its b 29 mother ship the plane was jettisoned and destroyed variants of the design including the x 1b x 1d and x 1e continued to fly as late as 1958 originally printed by the u s air force and naca nasa this handbook provides a fascinating glimpse inside the cockpit of one of history s great planes classified restricted the manual was declassified this affordable facsimile has been slightly reformatted care has been taken to preserve the integrity of the text well over 18 000 total pages most manuals published by the department of the army with updates between 1999 and 2003 contains repair repair parts special tools lists maintenance checklist and flight related technical manuals and bulletins for the ch 47a ch 47b ch 47c and ch 47d chinook helicopter just a sample of the contents aviation unit and aviation intermediate maintenance manual ch 47d helicopter 1 335 pages aviation unit and aviation intermediate troubleshooting manual ch 47d helicopter 1 225 pages organizational maintenance repair parts and special tools lists for electronic equipment configuration for ch 47a ch 47b and ch 47c helicopters 116 pages preparation for shipment of ch 47 helicopter 131 pages operator aviation unit and aviation intermediate maintenance manual with repair parts and special tools list extended range fuel system army model ch 47 helicopter 194 pages aviation unit and intermediatemaintenance repair parts and special tools list including depot maintenance repair parts and special tools helicopter cargo transport ch 47d 689 pages aviation unit and intermediate maintenance repair parts and special tools list including depot maintenance repair parts and special tools helicopter cargo transport ch 47d 511 pages preventive maintenance daily inspection checklist ch 47d helicopter 30 pages phased maintenance checklist ch 47d helicopter 117 pages maintenance test flight manual army model ch 47d helicopter 195 pages operator s and crewmember s checklist army ch 47d helicopter 49 pages one time visual inspection and records check of the upper boost actuators and pull test of swashplate for all ch 47d mh 47d and mh 47e aircraft 11 pages warranty program for helicopter cargo transport ch 47d 28 pages calibration procedure for ch 47 integrated lower control actuator ilca bench test set 50 pages repair parts and special tools list for stability augmentation system amplifiers ch 47a ch 47b and ch 47c helicopters 53 pages aviation unit and aviation intermediate maintenance for general tie down and mooring on all series army models ah 64 uh 60 ch 47 uh 1 ah 1 oh 58 helicopters 60 pages operator s manual for ch 47d chinook flight simulator device 2b31a 185 pages over 36 000 total pages just a sample of the contents by file number and tm number 013511 tm 5 6115 323 24p 4 generator set gasoline engine driven skid mounted tubular frame 1 5 k single phase ac 120 240 v 28 vdc less engine dod models mep 015a 60 hz nsn 6115 00 889 1446 and dod model mep 025a 28 vdc 6115 00 017 8236 to 35c2 3 385 4 sl 4 07609a 07610a 013519 tm 5 6115 329 25p 1 generator set gasoline engine dr less engine 0 5 kw ac 120 240 v 60 hz 1 phase dod model fsn 6115 923 4469 400 hz model mep 019a 6115 940 7862 an dc model mep 024a 6115 940 7867 to 35c2 3 440 14 013537 tm 5 6115 457 12 7 generator set engine driven tactical skid mtd 100 kw 3 phase 4 wire 120 240 416 v dod models mep 007a utility class 50 60 hz nsn 6115 00 133 9101 model mep 106a precise class 50 60 h 6115 00 133 9102 model mep 116a precise class 400 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24 020611 lo 5 6115 457 12 generator set diesel engine driven skid mtd 100 kw 3 phase 120 208 and 240 416 v dod models mep 007a utility class 50 nsn 6115 00 133 9101 model mep 106a precise class 50 60 h 6115 00 133 9102 and model mep 116a precise class 400 hz 6115 00 133 9103 020612 lo 5 6115 458 12 generator set diesel engine driven skid mtd 200 kw 3 phase 4 wire 120 208 416 volts dod models mep 009a utility class 50 60 hertz nsn 6115 00 133 9104 mep 108a precise class 50 hertz 6115 00 935 8729 lo 07536a 12 020614 lo 5 6115 465 12 generator set diesel engine driven tactical skid mounted 30 3 phase 4 wire 120 206 and 240 416 v dod model mep 055a ut class 50 60 hz nsn 6115 00 118 1240 model mep 104a preci class 50 60 hz 6115 00 118 1247 and model 114a precise cla 400 hz 6115 00 118 1248 025150 tm 5 6115 271 14 12 generator set gasoline engine driven s mtd tubular frame 3 kw 3 phase ac 120 208 and 120 240 v 2 dc less engine dod model mep 016a 60 hz nsn 6115 00 017 823 model mep 016c 60 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electrical hydraulic pneumatic agpu wheel mounted self propelled towa ac 400hz 3ph 0 8 pf 115 200v 30 kw dc 28vdc 700 amps pneumatic 60 lbs min at 40 psig hydraulic 15 gpm at 3300 ps dod model mep 360a class precise 400 hertz nsn 1730 01 144 ag 320a0 mme 000 to 35c2 3 473 2 tm 1730 34 1 060922 tm 55 1730 229 12 8 power unit aviation multi output gted electrical hydraulic pneumatic agpu wheel mounted self propelled towable ac 400hz 3ph 0 8 pf 115 200v 30 kw dc 28 vdc 700 amps pneumatic 60 lbs m at 40 psig hydraulic 15 gpm at 3300 psig dod model mep 360a class precise hertz 400 nsn 1730 01 144 1897 ag 320a0 omm 000 to 35c2 3 473 1 tm 1730 12 1 061758 lo 5 6115 614 12 generator set diesel engine driven tactical skid mtd 200 kw 3 phase 4 wire 120 208 and 240 416 volts model mep009b utili 50 60 hertz nsn 6115 01 021 4096 061772 lo 5 6115 622 12 generator set diesel engine driven wheel mounted 750 kw 3 ph 4 wire 2200 3800 and 2400 4160 volts cummins engine company in model kta 2300g 2 dod 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modi trailer 064392 tm 5 6115 629 14 p 3 power plant an amjq 12a nsn 6115 00 257 1602 2 mep 006a 60hz generator sets 2 m200a1 2 wheel 4 tire modified trail 064443 tm 5 6115 625 14 p 2 power unit pu 405a m nsn 6115 00 394 9577 mep 004a 15 kw 60 hz generator set m200a1 2 wheel 4 tire modified trailer this item is included on em 0086 em 0087 064445 tm 5 6115 633 14 p 4 power plant an mjq 18 nsn 6115 00 033 1398 2 mep 003a 1 60 hz generator sets m103a3 2 wheel 1 1 2 ton modified trailer 064446 tm 5 6115 628 14 p 4 power plant an mjq 15 nsn 6115 00 400 7591 2 mep 113a 1 400 hz generator sets 2 m200a1 2 wheel 4 tire modified tra this item is included on em 0086 064542 tm 5 6115 631 14 p 4 power plant an mjq 16 nsn 61 15 00 033 1395 2 mep 002a 5 kw 60 hz generator sets m103a3 2 wheel 2 tire modified trai 065071 tm 55 1730 229 24p 6 power aviation multi output gted electrical hydraulic pneumatic ag wheel mounted self propelled towable ac 400 hz 3 ph 0 8 pf 115 200v 30 kw dc 28 vdc 700 amps 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electric 6115 00 463 9085 dod model mep 004 alm load bank kit 6115 00 291 071604 tm 9 6115 645 24p generator set tactical quiet 60kw 50 60 400 hz nsn 6115 01 274 7390 mep 806a 6115 01 274 7395 mep 816a to 35c2 3 444 14 tm 09244a 09245a 24p 3 071605 tm 9 6115 642 24p generator set tactical quiet 10 kw 60 400 hz nsn 6115 01 275 5061 mep 803a 6115 01 274 7392 mep 813a to 35c2 3 455 14 tm 09247a 09248a 24p 3 071610 tm 9 6115 643 24p generator set tactical quiet 15kw 50 60 400 hz nsn 6115 01 274 7388 mep 804a 6115 01 274 7393 mep 814a to 35c2 3 445 24 071611 tm 9 6115 644 24p generator set tactical quiet 30kw 50 60 400 hz nsn 6115 01 274 7389 mep 805a 6115 01 274 7394 mep 815a to 35c2 3 446 14 tm 09249a 09246a 24p 3 071613 tm 9 6115 641 24p generator set tactical quiet 5 kw 60 400 hz nsn 6115 01 274 7387 mep 802a 6115 01 274 7391 mep 812a to 35c2 3 456 14 071713 tm 9 6115 645 24 4 generator set skid mounted tactical quiet 60kw 50 60 and 400 hz mep 806a 50 60 hz nsn 6115 01 274 7390 mep 816a 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5881 dod model 80 1466 remote control module class 6115 01 150 5284 dod model 80 7320 site requirements module class 6115 01 150 5 navfac p 8 633 24p 074040 tm 9 6115 545 24p generator set diesel engine driven tac skid mtd 60 kw 3 phase 4 wire 120 208 and 240 416 volts d models mep 006a utility class 50 60 h z nsn 6115 00 118 124 mep 105a precise class 50 60 h z 6115 00 118 1252 mep 115 precise class 400 h z 6115 00 118 1253 including optional k dod models mep 006awf winterization fuel burning 6115 00 407 mep 006awe winterization kit electric 6115 00 455 7693 me load bank kit 6115 00 407 8322 and mep 006awm wheel mounti 6115 00 463 9092 to 074212 tm 9 6115 604 12 generator set diesel driven air transortable skid mtd 750 kw 3 phase 4 wire 24 and 2200 3800 v dod model mep 208a class prime utility hz 50 nsn 6115 00 450 5881 navfac p 8 633 12 074896 tm 9 6115 604 34 generator set diesel engine driven air transportable skid mtd 750 kw 3 phase 4 wire 2400 4160 and 2200 3800 volts dod model mep 208a prime utility class 50 60 hertz nsn 6115 00 450 5881 navfac p 8 633 34 075027 tm 9 6115 584 24p 1 generator set diesel e driven tactical skid mtd 5 kw 1 phase 2 wire 1 phase 3 wir 3 phase 4 wire 120 120 240 and 120 208 volts dod model mep utility class 60 hz nsn 6115 00 465 1044 navfac p 8 622 24p to 35c2 3 456 4 077581 tm 9 6115 673 13 p 2kw military tactical generator set 120 vac 60 hz nsn 6115 01 435 1565 mep 531a eic lka nsn 6115 21 912 0393 mechron 28 vdc nsn 6115 01 435 1567 mep 501a eic lkd nsn 6115 21 912 0392 mechron 078167 tm 9 6115 672 14 generator set skid mounted tactical quiet 60kw 50 60 and 400 hz mep 806b 50 60 hz nsn 6115 01 462 0291 eic ggw mep 816b 400 hz nsn 6115 01 462 0292 eic ggx 078443 tm 9 6115 639 13 1 3kw tactical quiet generator set mep 831a 60 hz nsn 6115 01 285 3012 eic vg6 mep 832a 400 hz nsn 6115 01 287 2431 eic vn7 078490 tm 9 6115 671 14 operator unit generator set skid mounted tactical quiet 30 kw 50 60 and 400 hz mep 805b 50 60 hz nsn 6115 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287 2431 eic vn7 079379 tb 9 6115 641 13 winterization kit nsn 6115 01 476 8973 installed on generator set skid mounted tactical quiet 5kw 60 and 400 hz mep 802a 600hz 6115 01 274 7387 mep 812a 400hz 6115 01 274 7391 079460 tb 9 6115 642 13 winterization kit nsn 6115 01 477 0564 eic n a installed on generator kit skid mounted tactical quiet 10kw 60 and 400 hz mep 803a 60hz 6115 01 275 0561 mep 813a 400hz 6115 01 274 7392 079461 tb 9 6115 643 13 winterization kit nsn 6115 477 0566 installed on generator set skid mounted tactical quiet 15kw 50 60 and 400 hz mep 804a 50 60hz 6115 01 274 7388 mep 814a 400hz 6115 01 274 7393 079462 tb 9 6115 644 13 winterization kit nsn 6115 01 474 8354 eic n a installed on generator set skid mounted 30kw 50 60 and 400 hz mep 805a 50 60hz nsn 6115 01 274 7389 mep 815a 400hz nsn 611501 274 7394 079463 tb 9 6115 645 13 winterization kit nsn 6115 01 474 8344 eic n a installed on generator set skid mounted tactical quiet 60kw 50 60 and 400 hz mep 806a 50 60hz 6115 01 274 7390 mep 816a 400hz 6115 01 274 7395 080214 tm 9 6115 670 14 p auxiliary power unit 20kw 120 240 vac 60 hz model no mep 903a sicps nsn 6115 01 431 3062 model number mep 903b jtacs nsn 6115 01 431 3063 model no mep 903c9win t nsn 6115 01 458 5329 eic n a naval engineering principles and theory of gas turbine engines is a technical publication for professional engineers to assist in understanding the history and development of gas turbine engines including the thermodynamic processes known as the brayton cycle common principles of various gas turbine nomenclatures technical designs applications and performance conditions that affect the capabilities and limitations of marine operations are provided it enables the ability to describe the principal components of gas turbines and their construction this book will enable the reader to increase professional knowledge through the understanding of navy engineering principles and theory of gas turbine engines the reader will learn the operation and maintenance of the gas turbine modules gtms gas turbine generators gtgs reduction gears and associated equipment such as pumps valves oil purifiers heat exchangers shafts and shaft bearings inside this book you will find technical information such as electronic control circuitry interfaces such as signal conditioners control consoles and designated electrical equipment associated with shipboard propulsion and electrical powergenerating plants when every detail of engineering work is performed with integrity and reliability technical leadership know how will improve electrical systems and equipment is the work of some 50 electrical design specialists in the power engineering field based largely on the work and experience of gdcd s generation development and constructor division of the cegb electrical branch the volume describes the design philosophies and techniques of power engineering the solutions to the large number of design problems encountered and the plant which has been chosen and developed to equip electrical systems both within the different types of new power station and modification tasks at existing stations this is the second of three volumes comprising the design of tva projects and is one of a planned series of special reports recording the experience of tva in carrying out the major phases of its engineering and construction program it undertakes to explain the engineering work involved in the design of electrical installations for primary water control stations of tva including switch yards constructed at the generating stations but not transmission lines and substations this textbook covers the entire gamut of project scoping identification development and appraisal and is primarily designed to meet the requirements of postgraduate students of management and engineering education researchers consultants policy makers and professionals in project management will find it a good body of knowledge as a reference source the objective of the book is to provide a multidisciplinary grounding to the readers so that they can develop all the skills and competencies required to view or manage the entire project management process as an integrated whole the book has been written in an easy to understand style and uses live case studies of renewable energy projects to illustrate the concepts so that the students readers understand them in the context of the real world though based on renewable energy projects majority of the concepts explained in the book are applicable to other industrial projects equally detailed guidance and notes on this aspect is given appropriately in the book many of the economic road blocks which have previously served to discourage the implementation of alternative power generation technologies can now be readily overcome through effective energy resource optimization it is now a fact that solid financial returns can be achieved from combined heating cooling and power generation projects by integrating energy and cost efficiency goals and seeking a match between power production and heating cooling requirements this book is intended to serve as a road map to those seeking to realize optimum economic returns on such projects the first section provides an introduction to basic heat and power thermodynamics with an overview of heat and power generation technologies and equipment the second section explores the infrastructure in which the project must be implemented including environmental considerations as well as utility rate structures the third section provides detailed coverage of a broad range of technology types and discusses how opportunities for their application can be identified and successfully exploited the final section takes you through each step of project development implementation and operation numerous examples are provided of actual field applications with supporting documentation of system layouts and performance the text is supplemented with more than one thousand graphics including photos cutaway drawings layout schematics performance curves and data tables