
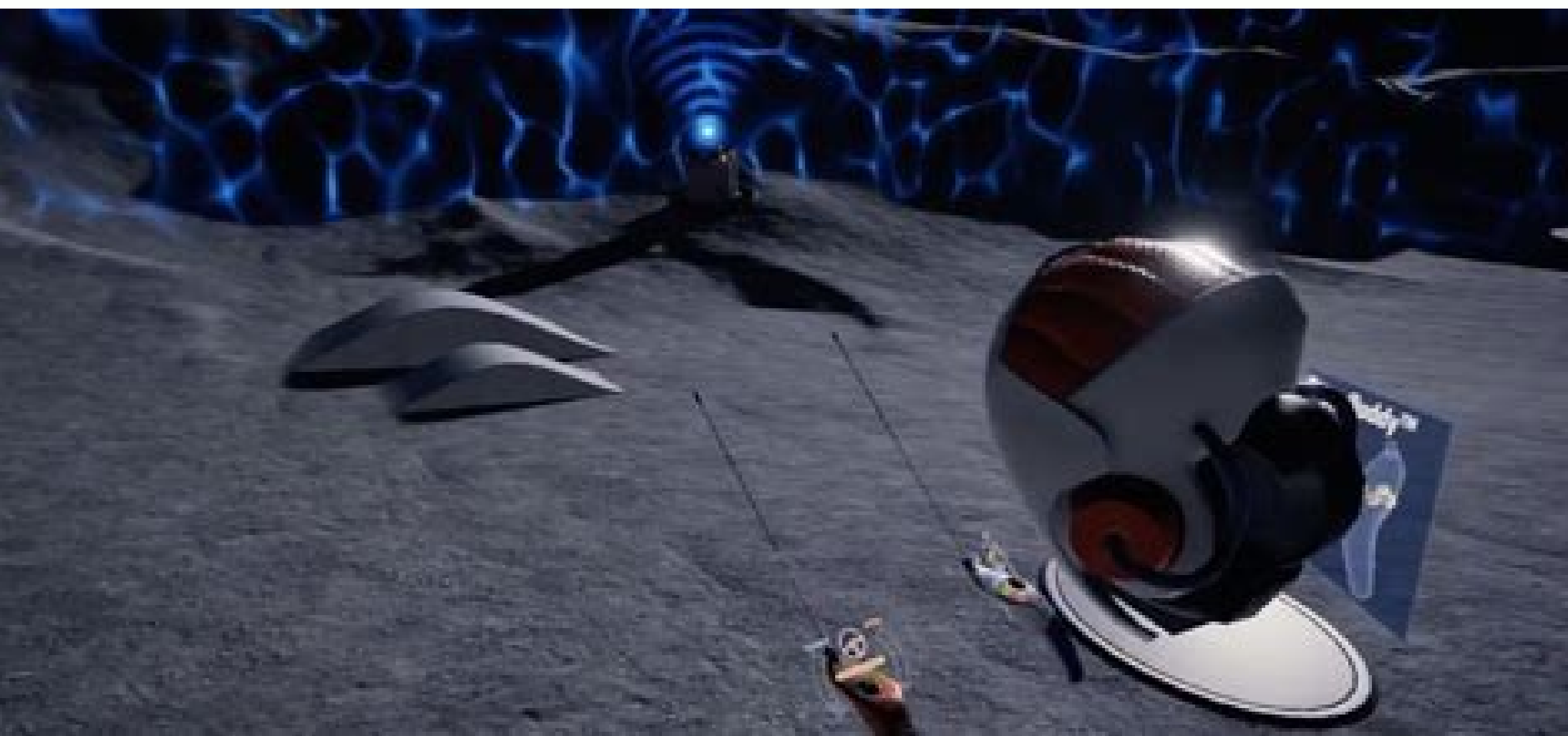
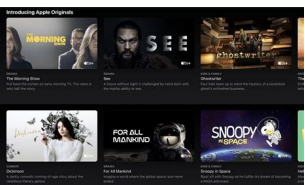
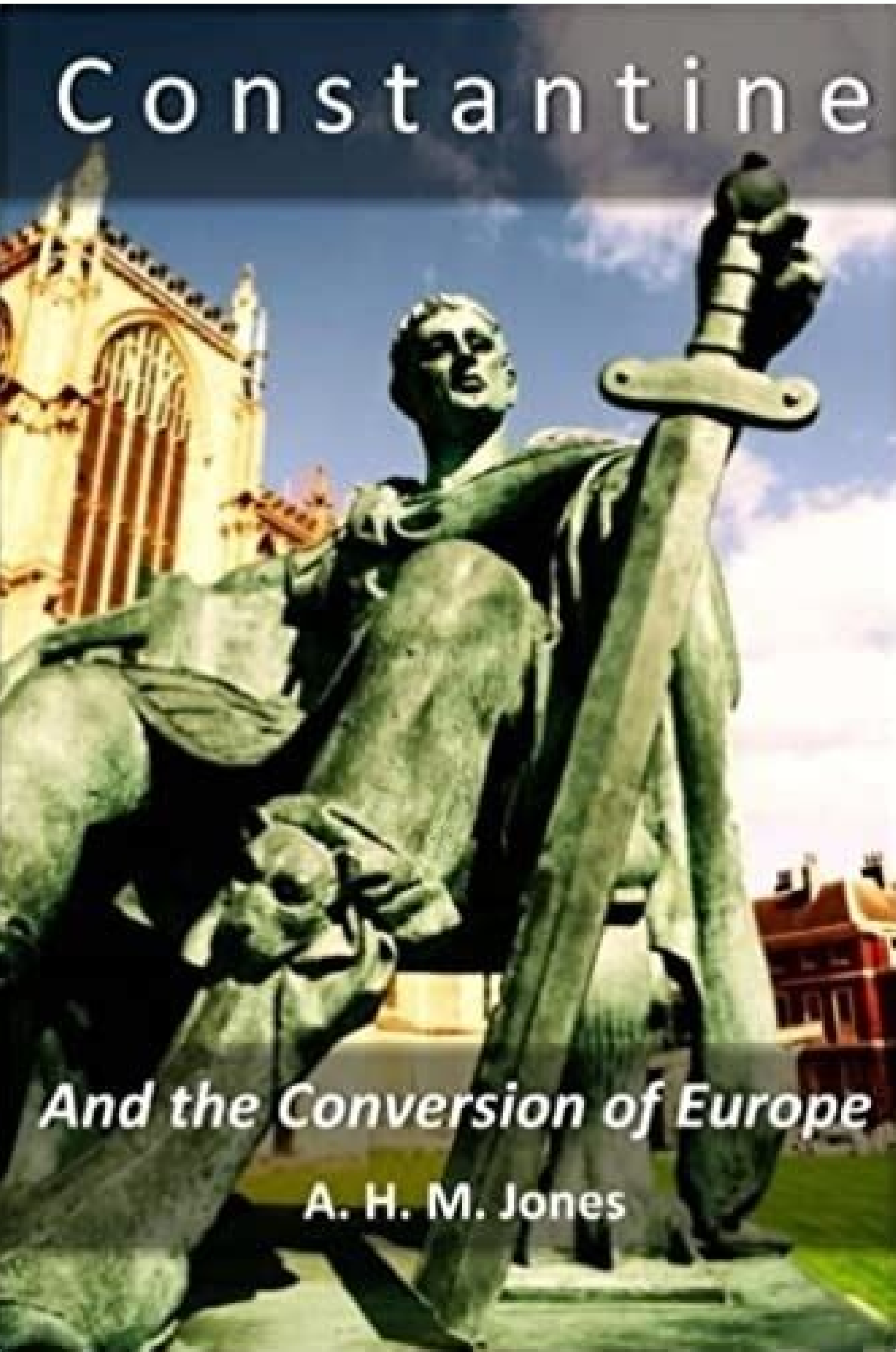
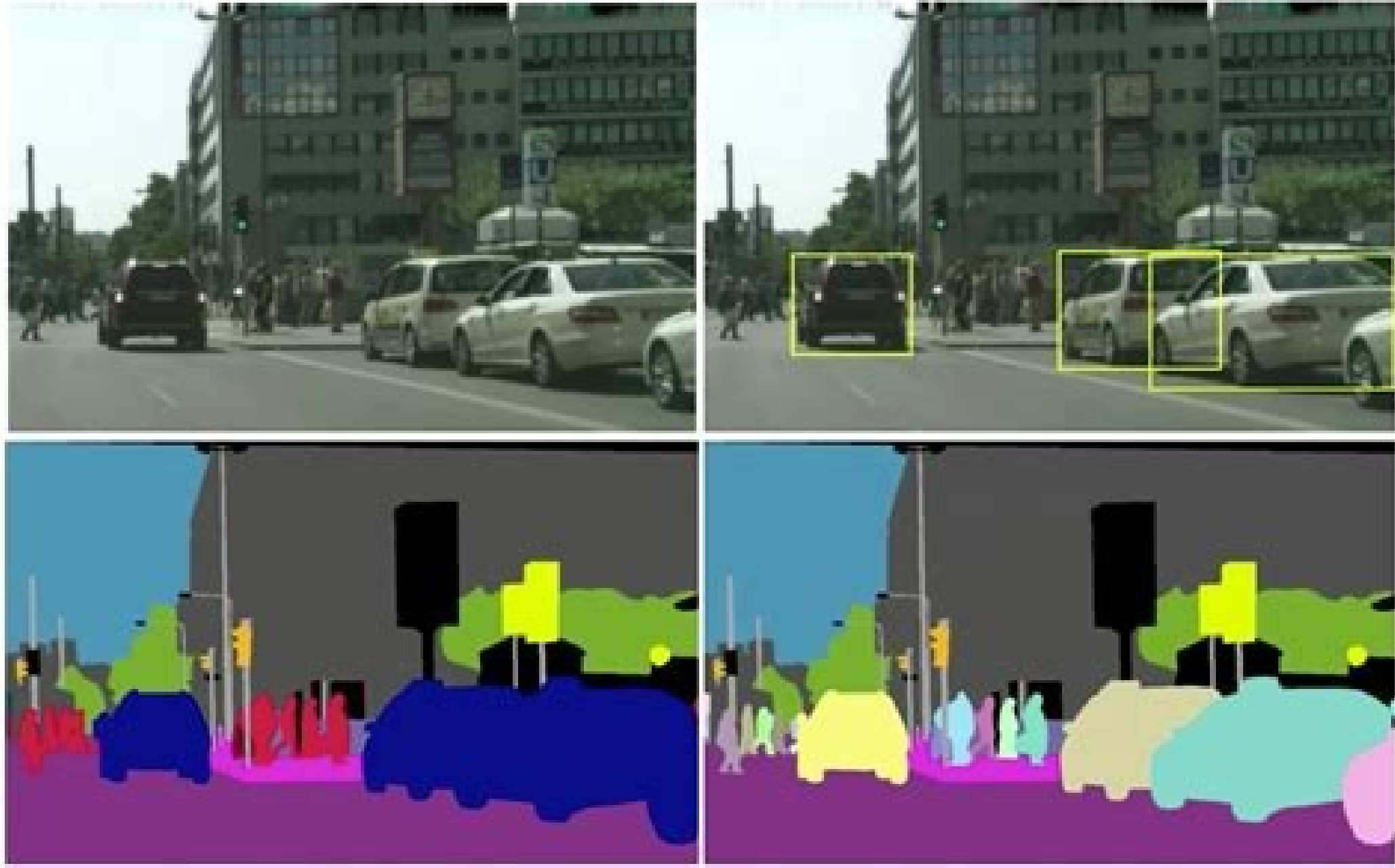
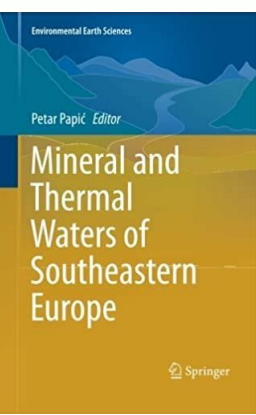


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P n rao manufacturing.

To create the 3-D model in part made by using pro-E software. Unit-II Automated Manufacturing Systems: Components, Classification and Overview of Manufacturing Systems, GT and Cellular Manufacturing, Part families, Part Classification and coding, Group technology machine cells, benefits of GT, FMS, FMS components, application and benefits, FMS planning and implementation issues Unit-III Product design and CAD, CAD system hardware, CAM, CAD/CAM and Computer Integrated Manufacturing, Quality function deployment Process Planning- Introduction, Computer-aided process planning, Material requirement planning, Capacity planning, shop floor control Unit-IV Numeric Control; Fundamentals of NC technology, Computer numeric control, DNC, Applications of Numeric control NC part programming, engineering analysis of NC positioning system Suggested books: 1. Students are required to attempt any five questions. The awards will be given according to the students presentation, report submitted, topic of presentation and the discussion or question-answer session after the presentation. Advantages and disadvantages of drives, Automation, Production systems and CIM by MIKELL P. Easy to understand illustrations: 473b. step less drive, Selecting the Maximum and minimum cutting speeds and feeds, Series of spindle speed - G.P. SL standard values of . Unit-4 Classification of machine tools types, functions and processes - fundamentals of NC and CNC technologies, CNC systems - configuration of the CNC system interfacing monitoring N.P.R. COLLEGE OF ENGINEERING & TECHNOLOGY N.P.R. Nagar, Natham - 624 401, Tamil Nadu, India. Unit I Robot Historical Development, Definitions, Basic Structure of Robots, Robot Anatomy, complete classification of Robots on the basis of configuration and control. Principle of :Machine tools by G.C. Sen & A. Bhattacharya 2. UNIT-I Introduction, Machine body, Elements of Design, Section of Machine body, Guide ways, Materials for Machine Body and Guide ways, Stick slip Motion in guides, Slide ways Design, Spindles and spindles Bearings. 7. Latest industrial case studies,like Turbine Blade Machining, Welding Fixture, etc5. Expanded coverage on important topics, like CNC Machine Tools and CMM3. Rajput Download Pdf, A Textbook Of Manufacturing Technology: Manufacturing Processes By R. 2. The student will deliver a power point presentation for about 30 minutes in the seminar on any of the above topics. A separate section on chapter-wise GATE previous years questions. Ray diagrams, Electrical drives, Hydraulic drives i.e. step less drives. Grover, P.H. MASTER OF TECHNOLOGY (MANUFACTURING TECHNOLOGY) MET-503 Robotics Engineering L T P Theory- 75 3 1 0 Sessional: 25 Time 3 hours Instructions: There will be eight questions in total; two from each unit. Students are required to attempt any five questions selecting at least one question from each unit. 3. Specifications of Robot Systems, Robot end effectors and interface, field applications of Robots, Mountings of spindle. K. All questions will carry equal marks Unit-I Introduction: Automation in Production System, Principles and Strategies of Automation, Basic Elements of an Automated System, Advanced Automation Functions, Level of Automation Material Handling; Material Handling Systems, AG vehicles, conveyor system, Automated Storage/Retrieval Systems, Work holding system. Industrial Robotics, M.P. groover, Tata McGraw Hill 3. AN ISO 9001:2008 Certifie To find more books about manufacturing technology by pn rao vol 2, you can use related keywords : A Textbook Of Manufacturing Technology: Manufacturing Processes By Rk Rajput Pdf Download Free, A Textbook Of Manufacturing Technology Manufacturing Processes By R K Rajput Download, A Textbook Of Manufacturing Technology Manufacturing Processes By K. Unit-2 Sensors and Transducers, Performance Terminology, (Displacement, Position & Proximity Sensors),(Velocity & Motion, Force, Fluid Pressure, Liquid Flow, Liquid Level, Temperature & Light Sensors), Selection of Sensors. Unit-1 Introduction to Mechatronics systems and components, Principles of basic electronics - Digital logic, number system logic gates, Sequence logic flip flop system, JK flip flop, D-flip flop. Actuator and drive elements, hydraulic, pneumatic and electrical drives, criteria for selection of drives. Unsolved Problems: 87e. Unit-3 Forward kinematics of robots, D-H

representation, Robotic Language and Control. Multiple Choice Questions: 1857. Web Supplementa. Rajput Download Pdf. A Textbook Of Manufacturing Technology: Manufacturing Processes, PDF Composite Manufacturing Technology Soviet Advanced Composites Technology Series , MANUFACTURING SCIENCES& TECHNOLOGY-II 1. New topics included, likeAutomation, Economics of Tooling, etc4. Robotics engineering klafiter. PHI 4. Methods for Increasing Rigidity, Use of Reinforcing stiffeners in lathe Bed. To create the surface model in the part mode by using Pro-E software. UNIT- III Introduction, Motions in M/C Tools, Group vs Individual, Mechanical drive- design layout of mechanical stepped drivers. To assemble the 3-D model in assemble mode by using Pro-E software. Static Compliance of a Machine Tool, Design of Lathe Bed. Click here to load readerMASTER OF TECHNOLOGY (MANUFACTURING TECHNOLOGY) MET- 501 Automation and Computer-Integrated Manufacturing L T P Theory: 75 3 1 0 Sessional: 25 Time: 3 Hours Instruction: There will be eight questions in total; two from each unit. Students are required to attempt any five questions selecting at least one question from each unit. Unit 2 Various Sensors and their Classification, Use of Sensors and Sensor Based System in Robotics like displacement, proximity and range sensors, Machine Vision System. To study the different configuration of robots and their application. To convert the 3-D model in 2-D model by using Pro-E software. To create the 2-D models in the sketch mode by using Pro-E software. Tool life , Source of Vibration, Machine Tool Chatter. Unit 4 Basic control mechanism, Types of Automatic control system, open and closed loop transfer function, linear control and force control schemes Synthesis of crank and rocker mechanism, two position synthesis slider cranks mechanism. Microprocessors and their applications Microcomputer computer structure/microcontrollers, Integrated circuits- signal conditioning processes, various types of amplifiers, low pass and high pass filters. Actuators, Mechanical Actuation Systems, Hydraulic & Pneumatic Actuation Systems, Electrical Actuation Systems, A.C. Motor, D.C. Motor, Stepper Motor. 4. Stages of Kinematic Synthesis. The students will also prepare a detailed report in MS word and after proper binding (spiral form) will submit it to the teacher concerned. Hydraulic circuits, Pneumatic drives, Kinematics calculation of speed gear Boxes. UNIT-II Introduction, Basic Principles of Designs for Strength and rigidity, comparative Evolution of various Materials used in M/C Tool construction by weight, Optimum Design criterion, Dependence of Process Capability on the Rigidity of M/C Tool. Theory of Mechanisms, Shigley, TMH MASTER OF TECHNOLOGY (MANUFACTURING SYSTEMS) MET-505 Machine Tool Design L T P Theory- 75 3 1 0 Sessional: 25 Time: 3Hours Instructions: There will be eight questions in total; two from each unit. Students are required to attempt any five questions selecting at least one question from each unit. by P C. 10. For Students: Multiple ChoiceQuestions and Chapter-wise GATE Previous Years' Questions This will be followed by question answering session for about 10 minutes. Solved Examples: 40c. Software and hardware principles and tools to build mechatronic systems., Basic system models mathematical models, mechanical and other system Building blocks. 8. Robotics and control, Mittal and Nageath, Tata McGraw Hill. 6. Production Engg. Computer Integrated Manufacturing by Kant Vajpayee. The questions/queries on the topic will be asked by the teacher and class students. Principles of Electronic system communication, Interfacing, A.D. and D.A.converters. Suggested Books: 1. MASTER OF TECHNOLOGY (MANUFACTURING TECHNOLOGY) MET-502 Mechatronic Systems L T P Theory: - 75 3 1 0 Sessional:-25 Time: - 3 Hours Instructions: - There will be eight questions in total, two from each unit. 9. Review Questions: 331d. Sharma Design of M/C Tool by S.K. Basu/ D.K. Pal MASTER OF TECHNOLOGY (MANUFACTURING TECHNOLOGY) MET-507 CIM Lab L T P Practical- 50 0 0 4 Sessional: 25 1. Note: - The students must perform at least eight experiments. Unit-IV M /C Tool Controls: Basic elements of machine tool control, Principles of lever. Adedicated section on chapter-wise GATE questions provide support to thecompetitive examinations' aspirants.This revised edition alsomaintains its principle of lucid presentation and easy to understand pedagogy.This makes the book a complete package on the subject which will greatlybenefit students, teachers and practicing engineers.1. One new chapter, on latesttechnology, Micro-Manufacturing2. Extensive Pedagogy. MASTER OF TECHNOLOGY (MANUFACTURING TECHNOLOGY) MET-509 Seminar L T P 2 0 0 Sessional: 25 Students are required to deliver a seminar on some emerging areas of Mechanical Engineering. To study the different elements of FMS system take a case study of automotive component industry. Suggested books: 1. Design features of spindles. To generate a NC program for machining a 3 D model generated by Pro E. To study the hardware and software of cad system. For Instructors: SolutionManual and PowerPoint Lecture Slidesb. To study the different commands in the part mode 5. Manufacturing Science - A. Ghosh And A.K. Mallik.Affiliated East-W. manufacturing technology, Manufacturing Technology 2 By Pn Rao Chapter 1 – IntroductionChapter 2 - Metal CuttingChapter 3 - Machine ToolsChapter 4 - Centre LatheChapter 5 - Special Purpose LathesChapter 6 - Reciprocating MachineToolsChapter 7 - MillingChapter 8 - Hole Making OperationsChapter 9 - Grinding and otherAbrasive ProcessesChapter 10 - Other Machine ToolsChapter 11 - UnconventionalMachining ProcessesChapter 12 - Micro-ManufacturingChapter 13 - Machine Tool TestingChapter 14 - Designing forMachiningChapter 15 - Jigs and FixturesChapter 16 - MetrologyChapter 17 - Numerical Control ofMachine Tools The carefully crafted fourthedition of Manufacturing Technology offers essential understanding ofconventional and emerging technologies in the field of metal cutting andmachine tools. Methods of Function and path generation. With latest industrial case studies and expanded topicalcoverage, the textbook offers a deep knowledge of the ever-evolving subject. The report is to be submitted at least one week prior to the presentation. Wheel and push button operation, Mechanical control, Electrical control, NC in M/C Tools, Fluidic Control, Adoptive control. Introduction to inverse kinematics, Existence of solutions, Uniqueness solutions, solutions techniques. Unit-3 Design and selection of Mechatronics systems namely sensors line encoders and revolvers, stepper and servomotors Ball screws, solenoids, line actuators and controllers with application to CNC system, robots, consumer electronics products . M/C Tool Vibrations:- Introduction, Effects of Vibrations on M/C tool, parameters on W/P. All questions will carry equal marks.



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