

# MEC402 :: INDUSTRIAL AUTOMATION AND ROBOTICS

Max.Marks: 50

Time Allowed: 01:30 hrs

1. This paper contains 4 questions divided in two parts.
2. All questions are compulsory.
3. The marks assigned to each question are shown at the end of each question in square brackets.
4. Attempt either (a) OR (b) from each question of Part B.
5. Answer all questions in serial order.
6. Do not write anything on the question paper except your registration number at the designated space.

## PART A

Q1 (a) Where are the ports of a pressure relief valve connected?

[2.5 Marks]

(b) How many positions does a spring centered valve have?

[2.5 Marks]

## PART B

Q2 (a) Draw a circuit diagram for a special punching operation using double acting cylinder as ram, which starts punching operation when safety cover is secured and operator pushes the button. Cylinder extends fast and punch a hole and returns back slowly to its initial position.

[15 Marks]

OR

(b) What is a fail safe circuit? Explain with the help of circuit diagram.

[15 Marks]

Q3 (a) Explain the basic hydraulic system with neat and clean diagram.

[15 Marks]

OR

(b) What are the advantages and disadvantages of hydraulic systems.

[15 Marks]

Q4 (a) Explain how we designate a DC valve with a suitable example. Explain working of a 3/2 direction control valve in hydraulic system with the help of circuit.

[15 Marks]

OR

(b) What do you understand by pneumatic logic valves and check valves? Discuss in detail.

[15 Marks]

# Industrial Robotics Question Paper

**Jianjun Gao**



## **Industrial Robotics Question Paper:**

*Robotics and Artificial Intelligence* Michael Brady, L.A. Gerhardt, H.F. Davidson, 2012-12-06 Dr Lester A Gerhardt Professor and Chairman Electrical Computer and Systems Engineering Rensselaer Polytechnic Institute Troy New York 12180 This book is a collection of papers on the subject of Robotics and Artificial Intelligence Most of the papers contained herein were presented as part of the program of the NATO Advanced Study Institute held in June 1983 at Castel vecchio Pascoli Italy on the same subject Attendance at this two week Institute was by invitation only drawing people internationally representing industry government and the academic community worldwide Many of the people in attendance as well as those presenting papers are recognized leaders in the field In addition to the formal paper presentations there were several informal work shops These included a workshop on sensing a workshop on educational methodology in the subject area as examples This book is an outgrowth and direct result of that Institute and includes the papers presented as well as a few others which were stimulated by that meeting A special note is the paper entitled State of the Art and Predictions for Artificial Intelligence and Robotics by Dr R Nagel which appears in the Introduction and Overview chapter of this book This paper was originally developed as part of a study for the United States Army performed by the National Research Council of the National Academy of Science and published as part of a report entitled Applications of Robotics and Artificial Intelligence to Reduce Risk and Improve Effectiveness by National Academy Press in 1983

**Modern Problems of Robotics** Arkady Yuschenko, 2021-10-08 This book constitutes the post conference proceedings of the 2nd International Conference on Modern Problems of Robotics MPoR 2020 held in Moscow Russia in March 2020 The 16 revised full papers were carefully reviewed and selected from 21 submissions The volume includes the following topical sections Collaborative Robotic Systems Robotic Systems Design and Simulation and Robots Control The papers are devoted to the most interesting today s investigations in Robotics such as the problems of the human robot interaction the problems of robot design and simulation and the problems of robot and robotic complexes control

*Robotics, CAD/CAM Market Place, 1985*, 1985

**Startups and Robots** Cséfalvay Zoltán , 2024-08-16 MCC Centre for Next Technological Futures Studies on Innovation Technologies and Regions Volume 1 As cyberpunk writer William Gibson famously said The future is already here it s just not evenly distributed This ironic statement is particularly relevant when we look at the map of innovation and entrepreneurial ecosystems in Europe where we can easily see deep regional imbalances But while the future of technology is nearly impossible to predict it could be discovered by those companies the startups whose basic working method is trial and error In addition the current deafening hype around artificial intelligence is also reigniting the debate about robots and their impact on our economy and society And these are the main reasons this book is about startups and robots The studies conducted at the Centre for Next Technological Futures Mathias Corvinus Collegium Budapest raise questions such as How does geographic proximity to venture capital affect startups at different stages of development While startups in Europe are concentrated in a handful of

large cities what opportunities do smaller cities have that specialise in Industry 4.0 What factors influence the use of industrial robots in different European countries and how does the story of industrial robots differ from the emerging new story of robots in the service sector Incubators and accelerators can increase the chances of survival of startups but are those institutions that only chase a quick return on investment really the most successful CONTRIBUTORS Borbála Brosig Zoltán Csáfalvi Csaba Kristóf Johanyák Viktor László Csikszentmihályi Péter Orsolya Székely Zoltán Szombathy Máté Ujvárosi

**Emergent Trends in Robotics and Intelligent Systems** Peter Sinčák, Pitoyo Hartono, Mária Virčíková, Ján Vaščák, Rudolf Jakša, 2014-10-03 What is the Role of Intelligent Technologies in the Next Generation of Robots This monograph gives answers to this question and presents emergent trends of Intelligent Systems and Robotics After an introductory chapter celebrating 70 year of publishing the McCulloch Pitts model the book consists of the 2 parts Robotics and Intelligent Systems The aim of the book is to contribute to shift conventional robotics in which the robots perform repetitive pre programmed tasks to its intelligent form where robots possess new cognitive skills with ability to learn and adapt to changing environment A main focus is on Intelligent Systems which show notable achievements in solving various problems in intelligent robotics The book presents current trends and future directions bringing together Robotics and Computational Intelligence The contributions include widespread experimental and theoretical results on intelligent robotics such as e.g. autonomous robotics new robotic platforms or talking robots **Robotics and Well-Being** Maria Isabel Aldinhas Ferreira, João Silva Sequeira, Gurvinder Singh Virk, Mohammad Osman Tokhi, Endre E. Kadar, 2019-04-16 This book highlights some of the most pressing safety ethical legal and societal issues related to the diverse contexts in which robotic technologies apply Focusing on the essential concept of well being it addresses topics that are fundamental not only for research but also for industry and end users discussing the challenges in a wide variety of applications including domestic robots autonomous manufacturing personal care robots and drones **Social Robotics** Filippo Cavallo, John-John Cabibihan, Laura Fiorini, Alessandra Sorrentino, Hongsheng He, Xiaorui Liu, Yoshio Matsumoto, Shuzhi Sam Ge, 2023-02-01 The two volume set LNAI 13817 and 13818 constitutes the refereed proceedings of the 14th International Conference on Social Robotics ICSR 2022 which took place in Florence Italy in December 2022 The 111 papers presented in the proceedings set were carefully reviewed and selected from 143 submissions The contributions were organized in topical sections as follows Social robot navigation and interaction capabilities voice tactile Social robot perception and control capabilities Investigating non verbal interaction with Social robots Foster attention and engagement strategies in social robots Special Session 1 Social Robotics Driven by Intelligent Perception and Endogenous Emotion Motivation Core Special Session 2 Adaptive behavioral models of robotic systems based on brain inspired AI cognitive architectures Advanced HRI capabilities for interacting with children Social robots as advanced educational tool Social robot applications in clinical and assistive scenarios Collaborative social robots through dynamic game Design and evaluate user's robot perception and acceptance Ethics gender trust in

social robotics      **Proceedings of the ... International Symposium on Industrial Robots** ,1987      *ASME Technical Papers* ,1985      *Computer Books and Serials in Print* ,1985      **Applied Mechanics Reviews** ,1985      *Proceedings of Symposium for International Co-operation on Industrial Robots '87* ,1987      Robotics Technology Abstracts ,1985  
                          Robotics Abstracts ,1990      **Index of Conference Proceedings** British Library. Document Supply Centre,1999  
                          **International Encyclopedia of Robotics** ,1988      **Proceedings of the 6th British Robot Association Annual Conference** British Robot Association. Conference,British Robot Association,1983      **Japanese Technical Abstracts** ,1987  
                          **Robotics** Alan Gomersall,Penny Farmer,1984      International Encyclopedia of Robotics Richard C. Dorf,1988

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