

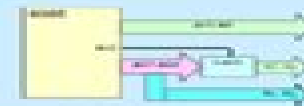
8085 Microprocessor Stepper Motor Interfacing



Lecture

PROF. MUTHURAMAN RAMASAMY

Demultiplexing AD7-AD0



- Given that ALE operates as a pulse during T1, we will be able to latch the address. Then when ALE goes low, the address is saved and the AD7-AD0 lines can be used for their purpose as the bi-directional data lines.

Prof. Muthuraman Ramasamy

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Stepper Motors

- more accurately controlled than a normal motor
- allowing fractional turns step by step
- low speed, and lower torque than a comparable D.C. motor
- useful for precise positioning for robotics.
- Servomotors require a position feedback signal for control

Stepper Motor Types

- Permanent Magnet
- Variable Reluctance

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28-Apr-12

how a stepper motor works

To understand how a stepper motor works, you just need to know the fact that a coil will attract a magnet when a current flows and it will repel the magnet when the current flows in the opposite direction

Full Step Stepper Motor

The rotor of a permanent magnet stepper motor consists of permanent magnets and a stator which has two pairs of windings. Just as the rotor aligns with one of the stator poles, the second phase is energized. The two phases alternate on and off and also reverse polarity. There are four steps. One phase lags the other phase by one step. This is equivalent to one half of an electrical cycle or 90°.



Half Step Stepper Motor

- The commutation sequence for a half-step stepper motor has eight steps instead of four. The main difference is that the second phase is turned on before the first phase is turned off. Thus, sometimes both phases are energized at the same time. During the half-steps the rotor is held in between the two full-step positions.

Variable Reluctance Stepper Motor (VR)

- The VR motor does not have a permanent magnet on the rotor. Instead, the rotor is made of soft iron, and performs a toothed disk like a gear. The stator has more than 4 coils. The coils are energized in opposite pairs, and will attract the rotor. The lack of a permanent magnet has a negative affect on the torque of the motor.

Stepper Motor Interface With 8085 Lecture Notes

Sabine Zange



Stepper Motor Interface With 8085 Lecture Notes:

8085 MICROPROCESSOR N. K. SRINATH, 2005-01-01 This up to date and contemporary book is designed as a first level undergraduate text on micro processors for the students of engineering computer science electrical electronics telecommunication instrumentation computer applications and information technology It gives a clear exposition of the architecture programming and interfacing and applications of 8085 microprocessor Besides it provides a brief introduction to 8086 and 8088 Intel microprocessors The book focusses on microprocessors starting from 4004 to 80586 instruction set of 8085 microprocessor giving the clear picture of the operations at the machine level the various steps of the assembly language program development cycle the hardware architecture of microcomputer built with the 8085 microprocessor the role of the hardware interfaces memory input output and interrupt in relation to overall microcomputer system operation peripheral chips such as 8255 8253 8259 8257 and 8279 to interface with 8085 microprocessor and to program it for different applications *Journal of Engineering Education* ,1996 *Microcomputers and Microprocessors* John E. Uffenbeck, 1991 An introduction to microprocessors updated to cover recent models Designed as a first course in microcomputers this new edition covers the hardware and machine language software of the 8080 8085 and Z 80 8 bit microprocessors It explores various aspects of microcomputer technology using examples of 8080 8085 and Z 80 applications

Microcomputer D.A.T.A. Book Derivation and Tabulation Associates, inc, 1980 □□□□□□ □□□□□□ □□ □□□□□□ □□□□□□
1989, **Electronics & Wireless World** ,1984 *Computer Design* ,1979 *Electronics World + Wireless World* ,1984

Cities and Their Vital Systems Advisory Committee on Technology and Society, 1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible **The Intelligent Microcomputer** Roy W. Goody, 1986 **Commerce Business Daily** ,1998-03 **Scientific and Technical Books and Serials in Print** ,1989 *Commonwealth Of Australia Gazette* Australia, 1969 **Indianapolis Monthly** ,2001-12 Indianapolis Monthly is the Circle City s essential chronicle and guide an indispensable authority on what s new and what s news Through coverage of politics crime dining style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of Indy s cultural landscape **Government Reports Announcements & Index** ,1989

Radio-electronics ,1978 *The Traffic-accident Investigation Manual* James Stannard Baker, Lynn B. Fricke, 1986 This book is a manual for those involved in traffic accident investigation Before 1925 systematic traffic accident investigation was practically unknown but with the advent of the automobile and the resultant prominence of traffic deaths in everyday life

concerned persons and organizations took measures to minimize traffic danger Accident investigation has become progressively more sophisticated By reconstructing accidents determining fault and obtaining convictions drivers are urged to be more responsible This book covers 13 major topics with specific instructions for various tasks explaining how each task can better serve the whole of the investigation These tasks include for example taking photos examining vehicle damage making sense of involved persons differing accounts of what happened questioning witnesses gauging the mental and emotional state of involved persons and witnesses measuring the scene interpreting skidmarks and other bits of evidence and drawing situation maps It also elaborates on laws police and administrative functions standards and more Numerous exhibits including diagrams and photographs with captions Tables chapter references index and glossary **Power Wagon** ,1922
Jane's World Railways, 1987-88 Geoffrey Freeman Allen,1987-10 *Aerial Age Weekly* ,1918

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