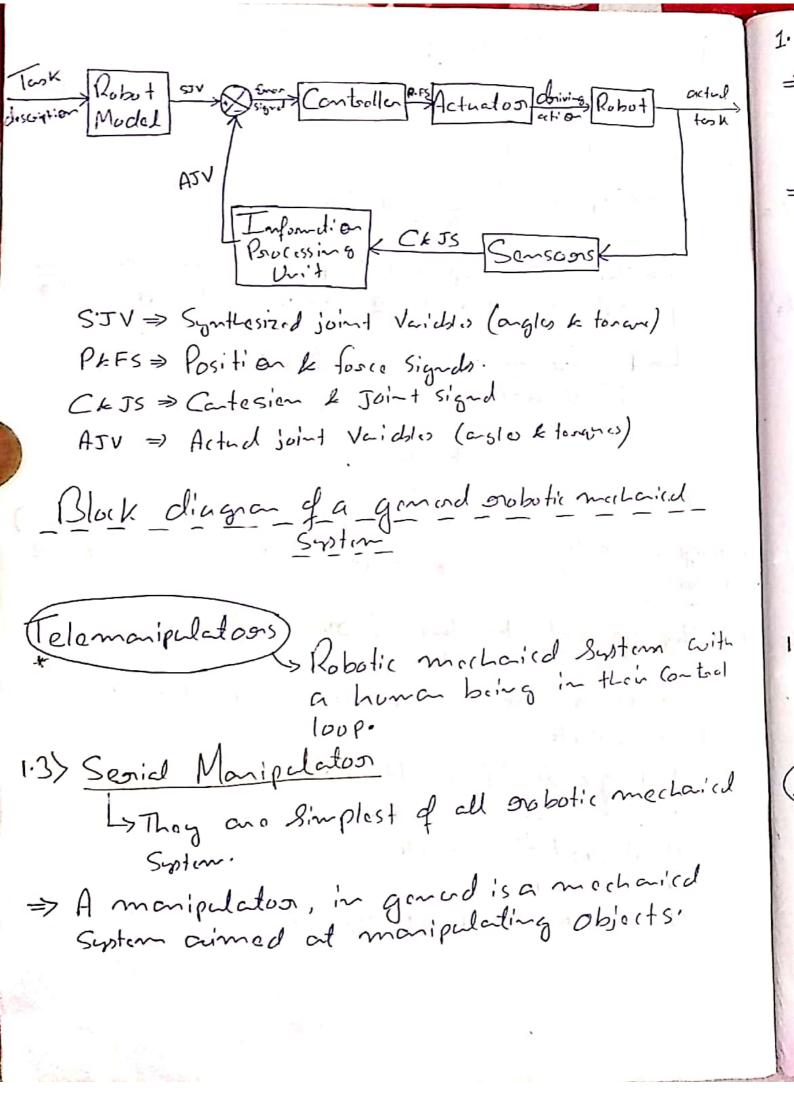
An Overview of Robotic Mechanical

System I 1.1) Introduction

System Combination, of Parts froming

a Complex whole Olynamic System) Plis a System in Which one can distinguish three clements, namely, a State , an Amount and an output. Kule of transition from Mathamatical mode of the dynamic System) One Cument State to a / Putur one. od 1. => State of a dynamic System of a centain instat is determined not only by the value of the input of that instat, but also by the part history of that La Due to the dynamic Systems are said to have money (Static System) > System whose state at a given instat is only function of the input at the current time. -> Thoy agno said to have no minory.

(Porugorammable onobot -> Openation is limited to structured environments. (Intelligent Robot) in an un shuttered environment. -> They are expected to penceive their conviousnet and donaw conclusions based on this pencaption. -> By for most Complex of perception tasks is Visual Qubots Intalliant Machine Telemaipulators (Porogrammable) 1.2> The general Structure of mobolic Mechanical => A grobatic mechanical system is composed of a Low Subsystem:-(1) Rigid & déformable bodies. (ii) Sonsing subsystem (iii) Actuation Subsigition. (V) Information-porocessing subsustan.



1.4> Parallel Manipulation

- => In a parellel manipulation, we distinguish one base platform, one moving platform, and various legs.
- => Contrary to Seried maipulators, all of whose joints are atvacted, parallel maipulators contain unarticaled joints.

Lo The presence of uncetucted joints makes
the analysis of parallel manipulators, in general
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Courter parts.

Example

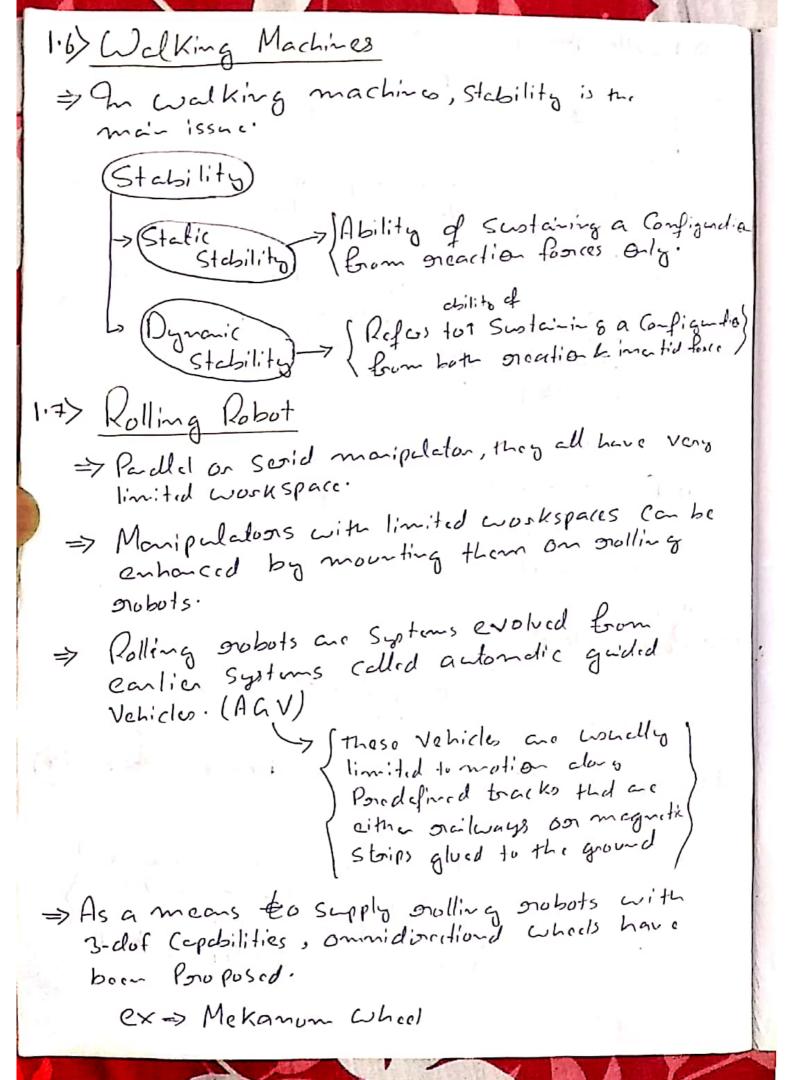
- O Delta grobot
- @ Hoxa grobot
- Q Sta nobot
- 1.5> Robotic Hand

(Manipulation)

Simple manipulation

Dex trous Maripulation

In dexteors manipulation, the grasped object is maquired to move with mespect to the palm of the grasping had



=> Recent developments in the technology of grolling grounds have been supported that in compardion of alternations of ODW.