

## Reading list for Electro Hydraulic Systems, TMMS13, 2022

### Regulatory literature

#### Articles

Elif Erzan Topcu et.al., Development of electro-pneumatic fast switching valve and investigation of its characteristics *MECHATRONICS* 16 (2006) 365–378  
<https://www.sciencedirect.com/science/article/abs/pii/S0957415806000250>

M. Borghi, et. al., Influence of Notch Shape and Number of Notches on the Metering Characteristics of Hydraulic Spool Valves *International Journal of Fluid Power* August 2005  
Notch  
[https://www.researchgate.net/publication/255745326\\_Influence\\_of\\_Notch\\_Shape\\_and\\_Numbe](https://www.researchgate.net/publication/255745326_Influence_of_Notch_Shape_and_Numbe)

M. Taghizadeh, et. al., Modeling and identification of a solenoid valve for PWM control applications *C. R. Mecanique* 337 (2009) 131–140  
Step 1 modell  
<https://www.sciencedirect.com/science/article/pii/S1631072109000308>

Marko Simic, et. al., Modelling of Hydraulic Spool-Valves with Specially Designed Metering Edges *Journal of Mechanical Engineering* 60(2014)2, 77-83  
[https://www.sv-jme.eu/?ns\\_articles\\_pdf=/ns\\_articles/files/ojs/1104/public/1104-8029-1-PB.pdf&id=3078](https://www.sv-jme.eu/?ns_articles_pdf=/ns_articles/files/ojs/1104/public/1104-8029-1-PB.pdf&id=3078)

Peiman Naseradinmousavi et. al., Nonlinear mathematical modeling of butterfly valves driven by solenoid actuators *Applied Mathematical Modelling* 35 (2011) 2324–2335  
Step 2  
<https://www.sciencedirect.com/science/article/pii/S0307904X10004464>

#### Websites

Magnus Sethson, *Repository* <https://magse13.gitlab-pages.liu.se/TMMS13/>

### Additional literature

#### Books

Clarence W. de Silva, CRC Press, *Mechatronics, An Integrated Approach*  
ISBN: 0-84931274-4

William Bolton, Pearson, *Mechatronics, Electronic control systems in Mechanical and Electrical Engineering 6*  
ISBN: 978-1-292-07668-3