



energies



Special Issue Reprint

Application and Analysis in Fluid Power Systems

www.mdpi.com/books/reprint/7441

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ISBN 978-3-0365-7866-8 (Hardback)

ISBN 978-3-0365-7867-5 (PDF)

This reprint focuses on the recent advances in fluid power technology reporting results in a wide range of applications. Studies concerning the developments of pumps both at constant and variable displacement are reported. Analyses are focused on the improvement of efficiency, control, design and pressure ripple reduction.

About fluid power, several applications are investigated with the aim of reducing energy losses, in particular implementations in an excavator, a hybrid transmission and a system for agricultural solutions are described. Applications are studied focusing also on the effects of a particular load holding valve, and facing the relevant aspects of the condition monitoring, failure modes and effects analysis.

The fluid power covers a very wide range of application as demonstrated by the paper concerning an exoskeleton device.

Finally, a particular application concerning a gas pressure regulator with lower noise emission is reported.



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