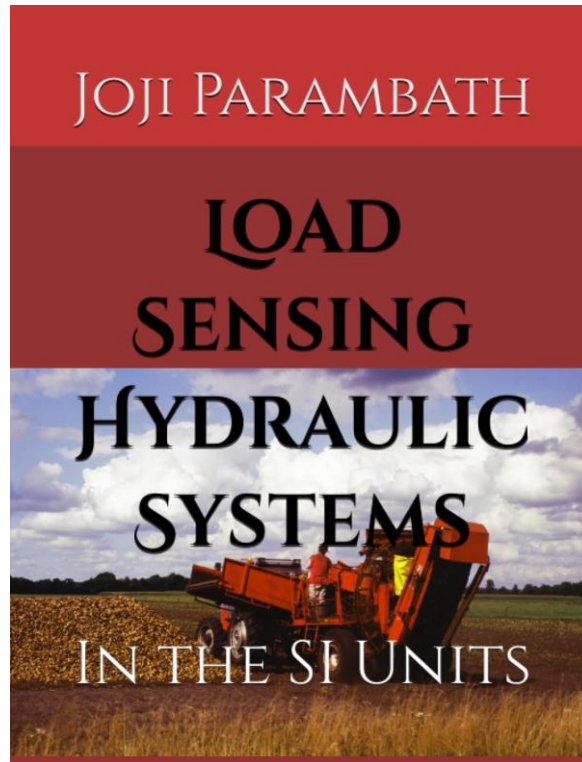


# Load Sensing Hydraulic Systems (In the SI Units)

by

**Joji Parambath**



## About the Book

When designing hydraulic systems, you aim to get as much work done as possible while using less energy. You've got many design choices - from more traditional circuits to specialized arrangements like load sensing. High-end load sensing hydraulic systems offer better control and energy efficiency. Load sensing systems have become increasingly popular and widely accepted, introducing greater sophistication and simplicity in hydraulic controls.

The book is really helpful when it comes to understanding load sensing hydraulic systems. It explains these systems' important components, like load sensing variable-displacement pumps and pump displacement control elements. When the system demands flow, a load sensing variable-displacement pump with a swash plate design delivers only the flow required by the associated system at a pressure required to move the connected load. The displacement control elements, including pressure controllers and load sensing compensators, are used to control the swash plate angle efficiently. For easy understanding, the book provides simple examples that clearly illustrate different modes of operation for load sensing systems. The SI system of units is employed throughout the book.

### About the Author

Joji Parambath is an accomplished professional with over 25 years of experience in Pneumatics, Hydraulics, and PLC. Throughout his illustrious career, he has trained professionals from various industries, faculty members, and engineering students, imparting his knowledge and expertise to the next generation of learners. The author's extensive experience in handling topics such as industrial hydraulic systems, mobile hydraulic systems, and hydraulic system design has uniquely positioned him to prepare this book on advanced hydraulics.

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