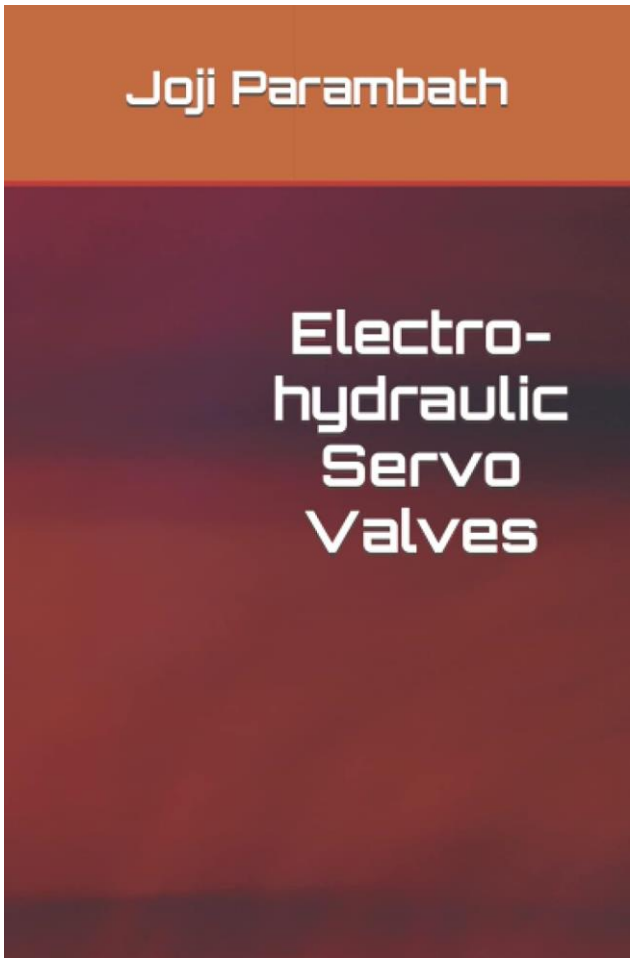
Electro-hydraulic Servo Valves

by

Joji Parambath



About the Book

Servo valves were developed in the late 1930s as a high-tech, high-performance, but high-cost solution to motion control requirements. A servo valve uses a torque motor to place its spool at the desired position. It is used mainly for closed-loop control of position, speed, or force. High-performance closed-loop servo valve technology has become the norm in machine automation, where the requirements are greater precision, faster operation, and more straightforward adjustments.

This book explores the technology used in state-of-the-art servo valves. It also describes the construction of electrohydraulic servo valve systems, the details of various types of control elements, and the characteristics of servo valve systems.

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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