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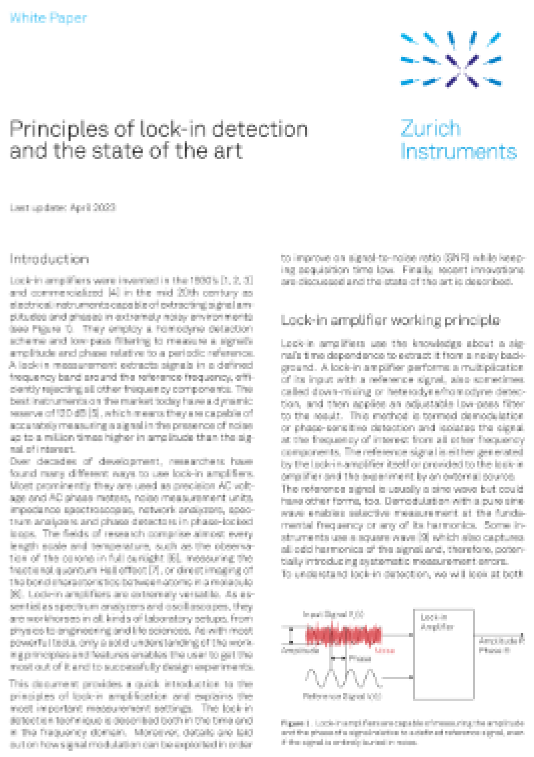
White Paper

Principles of lock-in detection
and the state of the art

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Last update: April 2023

Introduction

Lock-in amplifier working principle

Principles of Lock-in Detection

Explore the world of lock-in amplifiers in this paper, vital for success in photonics labs. Grasp the details of detecting amplitude and phase amid widespread signal changes from pulsed lasers, acousto- and electro-optic modulators, optical choppers, and other devices. Delve into essential measurement settings, and insights about detection techniques in the time and frequency domains and draw some inspiration from the latest developments for your own experimental challenges.

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