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Altri autori (Persone)	BrignonArnaud
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Nota di contenuto	Coherent Laser Beam Combining; Contents; Preface; Acronyms; List of Contributors; Part One: Coherent Combining with Active Phase Control; 1 Engineering of Coherently Combined, High-Power Laser Systems; 1.1 Introduction; 1.2 Coherent Beam Combining System Requirements; 1.3 Active Phase-Locking Controls; 1.3.1 Optical Heterodyne Detection; 1.3.2 Synchronous Multidither; 1.3.3 Hill Climbing; 1.4 Geometric Beam Combining; 1.4.1 Tiled Aperture Combiners; 1.4.2 Filled Aperture Combiners Using Diffractive Optical Elements; 1.4.2.1 Overview of DOE Combiners; 1.4.2.2 DOE Design and Fabrication 1.4.2.3 DOE Thermal and Spectral Sensitivity1.5 High-Power Coherent Beam Combining Demonstrations; 1.5.1 Coherent Beam Combining of Zigzag Slab Lasers; 1.5.2 Coherent Beam Combining of Fiber Lasers; 1.5.2.1 Phase Locking of Nonlinear Fiber Amplifiers; 1.5.2.2 Path Length Matching with Broad Linewidths; 1.5.2.3 Diffractive CBC of High-Power Fibers; 1.5.2.4 CBC of Tm Fibers at 2 m; 1.6 Conclusion; Acknowledgments; References; 2 Coherent Beam Combining of Fiber Amplifiers via LOCSET; 2.1 Introduction; 2.1.1 Beam Combination Architectures; 2.1.2 Active and Passive Coherent Beam Combining 2.2 Locking of Optical Coherence by Single-Detector Electronic-Frequency Tagging2.2.1 LOCSET Theory; 2.2.2 Self-Referenced LOCSET; 2.2.2.1 Photocurrent Signal; 2.2.2.2 LOCSET Demodulation;

2.2.3 Self-Synchronous LOCSET; 2.3 LOCSET Phase Error and Channel Scalability; 2.3.1 LOCSET Beam Combining and Phase Error Analysis; 2.3.2 In-Phase and Quadrature-Phase Error Analysis; 2.3.3 Two-Channel Beam Combining; 2.3.4 16-Channel Beam Combining; 2.3.5 32-Channel Beam Combining; 2.4 LOCSET High-Power Beam Combining; 2.4.1 Kilowatt-Scale Coherent Beam Combining of Silica Fiber Lasers
2.4.2 Kilowatt-Scale Coherent Beam Combining of Photonic Crystal Fiber Amplifiers
2.5 Conclusion; References; 3 Kilowatt Coherent Beam Combining of High-Power Fiber Amplifiers Using Single-Frequency Dithering Techniques; 3.1 Introduction; 3.1.1 Brief History of Coherent Beam Combining; 3.1.2 Coherent Beam Combining: State of the Art; 3.1.3 Key Technologies for Coherent Beam Combining; 3.2 Single-Frequency Dithering Technique; 3.2.1 Theory of Single-Frequency Dithering Technique; 3.2.2 Kilowatt Coherent Beam Combining of High-Power Fiber Amplifiers Using Single-Frequency Dithering Technique
3.2.3 Coherent Polarization Beam Combining of Four High-Power Fiber Amplifiers Using Single-Frequency Dithering Technique
3.2.4 Target-in-the-Loop Coherent Beam Combination of Fiber Lasers Based on Single-Frequency Dithering Technique; 3.3 Sine-Cosine Single-Frequency Dithering Technique; 3.3.1 Theory of Sine-Cosine Single-Frequency Dithering Technique; 3.3.2 Coherent Beam Combining of Nine Beams Using Sine-Cosine Single-Frequency Dithering Technique; 3.4 Summary; References; 4 Active Coherent Combination Using Hill Climbing-Based Algorithms for Fiber and Semiconductor Amplifiers
4.1 Introduction to Hill Climbing Control Algorithms for Active Phase Control

Sommario/riassunto

Recently, the improvement of diode pumping in solid state lasers and the development of double clad fiber lasers have allowed to maintain excellent laser beam quality with single mode fibers. However, the fiber output power is often limited below a power damage threshold. Coherent laser beam combining (CLBC) brings a solution to these limitations by identifying the most efficient architectures and allowing for excellent spectral and spatial quality. This knowledge will become critical for the design of the next generation high-power lasers and is of major interest to many industrial, environmental

2. Record Nr.	UNISA996248172803316
Autore	Peraino Judith Ann
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Nota di contenuto	Front matter -- Contents -- Illustrations -- Acknowledgments -- Introduction -- 1. Songs of the Sirens -- 2. A Music of One's Own -- 3. Queer Ears and Icons -- 4. Homomusical Communities -- 5. Flights of Fancy -- Notes -- Works Cited -- Index
Sommario/riassunto	In this fresh and innovative study, Judith A. Peraino investigates how music has been used throughout history to call into question norms of gender and sexuality. Beginning with a close examination of the mythology surrounding the sirens-whose music seduced Ulysses into a state of mind in which he would gladly sacrifice everything for the illicit pleasures promised in their song-Peraino goes on to consider the musical creatures, musical gods and demigods, musical humans, and music-addled listeners who have been associated with behavior that breaches social conventions. She deftly employs a sophisticated reading of Foucault as an organizational principle as well as a philosophical focus to survey seductive and transgressive queerness in music from the Greeks through the Middle Ages and to the

contemporary period. Listening to the Sirens analyzes the musical ways in which queer individuals express and discipline their desire, represent themselves, build communities, and subvert heterosexual expectations. It covers a wide range of music including medieval songs, works by Handel, Tchaikovsky and Britten, women's music and disco, performers such as Judy Garland, Melissa Etheridge, Madonna, and Marilyn Manson, and the movies The Rocky Horror Picture Show and Hedwig and the Angry Inch.
