1.

Record Nr.	UNINA990009352060403321
Autore	Ackerman, Lauren Vedder <1905- >
Titolo	Ackerman's surgical pathology / Juan Rosai
Pubbl/distr/stampa	St. Louis : Mosby, 1981
ISBN	0801600456
Edizione	[6th ed.]
Descrizione fisica	2 v. (xii, 1702, [133] p.) : ill. ; 26 cm
Locazione	FMEBC
Collocazione	90 U 2a 3 I
	90 U 2a 3 II
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2.

Record Nr.	UNINA9910637716103321
Autore	Vidyasagar Puvvula
Titolo	Design and Development of Model Predictive Primary Control of Micro Grids : Simulation Examples in MATLAB / / by Puvvula Vidyasagar, K. Shanti Swarup
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789811958526
	9811958521
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (170 pages) : illustrations
Collana	Springer Tracts in Electrical and Electronics Engineering, , 2731-4219
Disciplina	621.31
Soggetti	Electric power production
	Automatic control
	Electrical Power Engineering
	Mechanical Power Engineering
	Control and Systems Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Micro-grid Introduction and Overview -- Chapter 2. An Overview of Micro-grid Control -- Chapter 3. Mathematical Modelling of a Micro-grid -- Chapter 4. Introduction to Model Predictive Control -- Chapter 5. LTI-MPC for the Micro-grid Control -- Chapter 6. LTV-MPC with Extended "TAIL" -- Chapter 7. Special functions in the MPC formulation -- Chapter 8. Auxiliary Requirements for Real-time Implementation -- Chapter 9. Conclusion and Future Scope. .
Sommario/riassunto	This book provides a design and development perspective MPC for micro-grid control, emphasizing step-by-step conversion of a nonlinear MPC to linear MPC preserving critical aspects of nonlinear MPC. The book discusses centralized and decentralized MPC control algorithms for a generic modern-day micro-grid consisting of vital essential constituents. It starts with the nonlinear MPC formulation for micro-grids. It also moves towards the linear time-invariant and linear time-variant approximations of the MPC for micro-grid control. The contents also discuss how the application of orthonormal special functions can improve computational complexity of MPC algorithms. It also highlights various auxiliary requirements like state estimator, disturbance compensator for robustness, selective harmonic eliminator for eliminating harmonics in the micro-grid, etc. These additional requirements are crucial for the successful online implementation of the MPC. In the end, the book shows how a well-designed MPC is superior in performance compared to the conventional micro-grid primary controllers discussed above. The key topics discussed in this book include – the detailed modeling of micro-grid components; operational modes in micro-grid and their control objectives; conventional micro-grid primary controllers; the importance of MPC as a micro-grid primary controller; understanding of MPC operation; nonlinear MPC formulation; linear approximations of MPC; application of special functions in the MPC formulation; and other online requirements for the MPC implementation. The examples in the book are available both from a calculation point of view and as MATLAB codes. This helps the students get acquainted with the subject first and then allows them to implement the subject they learn in software for further understanding and research.