

| | |
|-------------------------|---|
| 1. Record Nr. | UNINA9910456463503321 |
| Autore | Swartz Charles <1938-> |
| Titolo | Multiplier convergent series [[electronic resource] /] / Charles Swartz |
| Pubbl/distr/stampa | Singapore ; ; Hackensack, NJ, : World Scientific, 2009 |
| ISBN | 1-282-44092-6 9786612440922 981-283-388-9 |
| Descrizione fisica | 1 online resource (264 p.) |
| Disciplina | 515.35 515/.24 |
| Soggetti | Convergence Multipliers (Mathematical analysis) Orlicz spaces Series, Arithmetic Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references (p. 245-249) and index. |
| Nota di contenuto | Preface; Contents; 1. Introduction; 2. Basic Properties of Multiplier Convergent Series; 3. Applications of Multiplier Convergent Series; 4. The Orlicz-Pettis Theorem; 5. Orlicz-Pettis Theorems for the Strong Topology; 6. Orlicz-Pettis Theorems for Linear Operators; 7. The Hahn-Schur Theorem; 8. Spaces of Multiplier Convergent Series and Multipliers; 9. The Antosik Interchange Theorem; 10. Automatic Continuity of Matrix Mappings; 11. Operator Valued Series and Vector Valued Multipliers; 12. Orlicz-Pettis Theorems for Operator Valued Series; 13. Hahn-Schur Theorems for Operator Valued Series 14. Automatic Continuity for Operator Valued Matrices Appendix A. Topological Vector Spaces; Appendix B. Scalar Sequence Spaces; Appendix C. Vector Valued Sequence Spaces; Appendix D. The Antosik-Mikusinski Matrix Theorems; Appendix E. Drewnowski's Lemma; References; Index |
| Sommario/riassunto | If $\{x_j\}$ is a space of scalar-valued sequences, then a series $\sum_j a_j x_j$ in a topological vector space X is $\{a_j\}$ -multiplier convergent if the series $\sum_j a_j = 18$ |

$\sum t_j x_j$ converges in X for every $\{t_j\} \in \ell_1$. This monograph studies properties of such series and gives applications to topics in locally convex spaces and vector-valued measures. A number of versions of the Orlicz-Pettis theorem are derived for multiplier convergent series with respect to various locally convex topologies. Variants of the classical Hahn-Schur theorem on the equivalence of weak and norm convergent series in ℓ_1 are also developed for multipliers.
