

INTISARI

INTEGRAL HENSTOCK-STIELTJES FUNGSI BERNILAI HILBERT

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Di dalam tugas akhir ini dibahas definisi dan karakteristik integral Henstock-Stieltjes fungsi bernilai Hilbert X . Pembahasan dimulai dengan memberikan definisi dan karakteristik fungsi teregulasi, fungsi bervariasi terbatas dan fungsi kontinu mutlak dari $[a, b]$ ke ruang Hilbert X . Selanjutnya, berdasarkan fungsi hasil kali dalam pada ruang Hilbert X , didefinisikan integral Henstock-Stieltjes fungsi bernilai Hilbert X . Pada bagian akhir, diberikan sifat integral Henstock-Stieltjes fungsi bernilai Hilbert X dan karakteristik primitif integral Henstock-Stieltjes fungsi bernilai Hilbert X .

ABSTRACT

THE HENSTOCK-STIELTJES INTEGRAL OF HILBERT VALUED FUNCTION

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In this final project, we discuss about definition and some characteristics of Henstock-Stieltjes integral of Hilbert X valued function. First, we begin with definition and some characteristics of regulated function, bounded variation function and absolute continuous function on $[a, b]$ with values in Hilbert space X . According to inner product function in Hilbert space X , we define Henstock-Stieltjes integral of Hilbert X valued function. In the end, we give some properties of Henstock-Stieltjes integral of Hilbert X valued function and the characteristics of it's primitif.