## Zbl 597.10055

Erdős, Paul; Sárközy, A.; Sós, V.T.

Problems and results on additive properties of general sequences. V. (In English)

Monatsh. Math. 102, 183-197 (1986). [0026-9255]

[Part I, cf. Pac. J. Math. 118, 347-357 (1985; Zbl 569.10032), part IV, cf. Lect. Notes Math. 1122, 85-104 (1985; Zbl 588.10056).]

A very special case of one of the theorems of the authors states as follows: Let  $1 \le a_1 \le a_2 \le ...$  be an infinite sequence of integers for which all the sums  $a_i + a_j$ ,  $1 \le i \le j$ , are distinct. Then there are infinitely many integers k for which 2k can be represented in the form  $a_i + a_j$  but 2k + 1 cannot be represented in this form. Several unsolved problems are stated.

## Classification:

11B13 Additive bases

00A07 Problem books

## Keywords:

addition sequences; infinite sequence of integers; unsolved problems