

倒数示波计时电位法

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摘要 使用 dE/dt 的倒数对 E 作图的示波计时电位法,称为倒数示波计时电位法。 dE/dt - E 曲线上的切口在 dE/dt^{-1} - E 上变成峰,可以方便地扣除充电电流,提高分析测试的灵敏度。

关键词 [切口](#) [曲线](#) [计时电位法](#)

分类号 [0646](#)

Reciprocal oscillo-chronopotentiometry

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Abstract A new electrochem. technique "reciprocal oscillochronopotentiometry" is presented in this paper. $(dE/dt)^{-1}$ - E oscillogram can be easily obtained by using an IBM PC/XT microcomputer after carrying out the reciprocal operation for those experimental data collected directly from dE/dt - E oscillogram. Incision on dE/dt - E curve was converted into sharp peak on $(dE/dt)^{-1}$ - E oscillogram and the close charging curve became a very even base line. Obviously, reciprocal oscillochronopotentiometry has both the sharp of cyclic voltammogram and the characters of dE/dt - E curve itself. It is much better than classical a.c. oscillochronopotentiometry. There is a good linear relation between peak height and concentration of depolarizer, also the capacity current can be easily taken off automatically. This method is very useful in actual anal. measurement as well as theor. studies on electrode processes.h

Key words [NICKING CURVE](#) [CHRONOPOTONTIOMETRY](#)

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