

199-200, 233-234, 238, 252, 262, 274-275, 277-279, 286, 295, 344, 371, 373, 423, 425, 427, 435, 442-444, 467-468

閘極氧化層崩潰 (gate oxide breakdown) 159, 179

閘極氧化層電容 (gate oxide capacitance) 152

閘極絕緣層 (gate insulating layer) 123, 221, 389

閘極線寬 (gate line width) 247

隔離 (isolation) 128, 149, 166, 196, 215, 223, 225-230, 232, 244, 247, 251, 255, 260-261, 272, 345-347, 366, 368, 405, 422, 427-431, 448, 453, 467-468

電子束蒸鍍 (electron-beam evaporation) 104

電子—電洞對 (electron-hole pairs) 57, 62-64

電子遷移 (electromigration, EM) 14, 130, 133, 138, 152, 208, 210, 223, 226, 232, 253, 264, 280, 295

電子遷移率 (electron mobility) 14, 130, 133, 138, 152, 223, 226, 232, 264, 280, 295

電子親和力 (electron affinity) 77, 97

電阻 (resistance) 16-17, 57, 128, 139, 187, 239, 246-250, 252, 258, 274, 282, 301, 319, 323-325, 329, 334-336, 340-344, 346, 349, 356, 379-380, 415-416, 425-426, 432-435, 446, 456, 462-463, 467-468

電阻率 (resistivity) 16-17, 247, 252, 468

電流密度方程式 (current-density equations) 19-20

電流源 (current source) 324-325, 359

電流鏡 (current mirror) 321, 325-326

電荷中心 (charge center) 78, 89, 97, 132

電荷共享模型 (charge sharing model) 167-168, 170

電荷儲存電容 (charge storage capacitance) 42

電荷灌壓技術 (charge pumping technique) 279

電路佈局 (circuit layout) 147

電漿蝕刻 (plasma etching) 104, 203

電導 16-17, 137-139, 232, 261-263, 344, 416

電導率 (conductivity) 16-17

電壓控制振盪器 (Voltage Controlled Oscillator, VCO) 327-329, 336, 338

預烤 190

飽和區 (saturation region) 127-131, 135-139, 152, 159-161, 167, 171-173, 232, 321, 325

飽和電流 (saturation current) 53-56, 58, 130, 232, 279-280, 293, 322, 417, 426-427, 466

## 十四劃

墊氧化層 (pad oxide) 196

實際厚度 (physical thickness) 275