

# 原子光谱分析文献题录

(五)

★ 国外原子吸收光谱分析 ★

1984

中国光学学会光谱专业委员会咨询服务部

# 原子吸收光谱文献题录分类索引

(第 4—5 册)

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## 地球化学

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9106,	9179								

摄影胶片—7115

磷酸盐—5086,	5095,	5199,	6673,	7851,	8839				
颜料—4991,	4993,	5158,	5952,	6954,	9142				
维生素—6950,	7009,	8029							
塑料—5114,	5116,	5581,	6147,	6623,	7263,	8632,	8899,	9220	
电镀液—8579,	9122,	9185							
橡胶—6089									
肥皂—5086									
一般—5008,	5009,	5204,	5299,	5583,	5869,	6167,	6237,	6424,	
6817,	7265,	7342,	7753,	7823,	7909,	8249,	8265,	8346,	8383,
8406,	8610,	8654,	8670,	8696,	8763,	8780,	8795,	8820,	8996,
9017,	9018,	9021,	9090,	9101,	9111,	9113,	9187,	9248,	9317

冶 金

合金—4892,	4926,	4983,	5219,	5235,	5533,	5643,	5734,	5771,	
5785,	5893,	5977,	5999,	6038,	6048,	6081,	6179,	6242,	6374,
6404,	6415,	6420,	6651,	6669,	6723,	6819,	6923,	7273,	7315,
7376,	7409,	7461,	7544,	7572,	7582,	7584,	7585,	7618,	7744,
7746,	7792,	7813,	7821,	7955,	7994,	7996,	8011,	8134,	8137,
8177,	8257,	8320,	8413,	8446,	8460,	8486,	8518,	8522,	8527,
8550,	8621,	8644,	8721,	8749,	8774,	8809,	9027,	9042,	9129,
9130,	9191,	9237,	9256,	9295,	9324				
钢铁—4885,	4886,	4911,	4912,	4952,	5050,	5067,	5103,	5132,	
5212,	5246,	5247,	5277,	5280,	5281,	5282,	5451,	5493,	5730,
5828,	5846,	5991,	5993,	6000,	6081,	6191,	6234,	6313,	6317,
6330,	6440,	6517,	6612,	6677,	6678,	6835,	6841,	6847,	7002,
7005,	7168,	7125,	7133,	7227,	7229,	7273,	7312,	7355,	7363,
7449,	7597,	7511,	7520,	7700,	7793,	7837,	7910,	7930,	7938,
8011,	8134,	8192,	8139,	9160,	9100,	9170,	8180,	8203,	8400,

8449, 8458, 8477, 8518, 8519, 8527, 8560, 8613, 8636, 8684,  
8721, 8755, 8809, 8951, 8964, 9005, 9067, 9086, 9079, 9124,  
9129, 9280, 9326, 9340, 9346

**金 属**—4847, 4897, 4925, 4946, 5038, 5043, 5147, 5215, 5324,  
5325, 5409, 5415, 5461, 5558, 5562, 5596, 5643, 5652, 5664,  
5731, 5732, 5734, 5746, 5760, 5848, 5859, 5989, 5998, 6048,  
6057, 6079, 6157, 6218, 6372, 6395, 6520, 6521, 6532, 6583,  
6720, 6790, 6828, 7103, 7444, 7450, 7520, 7822, 7837, 7888,  
7989, 7999, 8020, 8137, 8179, 8377, 8378, 8429, 8472, 8500,  
8819, 8897, 9211, 9237, 9324, 9329, 9356

**耐火材料**—4871, 4882, 5003, 5339, 5394, 5647, 6056, 6129, 6131,  
6136, 6137, 6158, 6235, 6236, 6354, 6364, 6378, 6676, 6782,  
**一 般**—4870, 4927, 4943, 5035, 5038, 5077, 5188, 5306, 5434,  
5528, 5529, 5722, 6037, 6155, 6165, 6222, 6373, 6456, 6461,  
6509, 6567, 7711, 7712, 7885, 8153, 8646, 9035

## 仪 器

**自 动 化**—4903, 5068, 5094, 5430, 5431, 5547, 5556, 5562, 5615,  
5654, 5724, 5832, 5942, 6124, 6145, 6207, 6248, 6254, 6536,  
6555, 6649, 6656, 6658, 6674, 6688, 6733, 6740, 6743, 6791,  
6829, 6863, 6886, 7051, 7077, 7335, 7346, 7451, 7521, 7611,  
7728, 7764, 7841, 7919, 7923, 7950, 7968, 8026, 8033, 8037,  
8121, 8133, 8174, 8214, 8419, 8444, 8566, 8635, 8910, 9004,  
**背景校正**—4829, 4942, 5151, 5256, 5272, 5273, 5286, 5435, 5663,  
5701, 5734, 5738, 5817, 5976, 6210, 6272, 6288, 6339, 6462,  
6501, 6712, 6764, 6845, 6908, 7300, 7536, 7540, 7804, 7809,  
8223, 8480, 8687, 8991

**燃 烧 器 和 火 焰**—4838, 4879, 4913, 4941, 4949, 5000, 5020, 5022,  
5023, 5024, 5025, 5026, 5027, 5064, 5065, 5106, 5133, 5139,  
5185, 5446, 5448, 5480, 5493, 5304, 5329, 5616, 5705, 5717,  
5795, 5797, 5833, 5939, 5970, 6013, 6022, 6209, 6257, 6280,  
6284, 6285, 6286, 6318, 6356, 6445, 6587, 6630, 6640, 6741,  
6749, 6914, 6937, 6949, 7011, 7018, 7037, 7068, 7402, 7405,  
7440, 7465, 7527, 7556, 7576, 7596, 7670, 7677, 7693, 7696,  
7715, 7742, 7784, 7797, 7803, 7825, 7860, 7956, 8017, 8086,  
8117, 8210, 8226, 8316, 8424, 8543, 8758, 8841, 9274

**计 算 机**—4941, 4968, 7123, 7418, 7451, 7517, 7523, 7675, 8098,  
8531, 8742, 8896, 8970, 9148

**检测限**—4852, 4973, 5019, 5119  
**探测器**—4857, 4889, 4970, 5113, 5118, 5184, 5199, 5205, 5236,  
 5290, 5331, 5450, 5497, 5504, 5576, 5598, 5745, 5793, 5930,  
 5946, 5988, 6080, 6247, 6250, 6251, 6384, 6506, 6614, 6906,  
 7406, 7426, 7923, 7979  
**整合与溶剂萃取**—4922, 4981, 5310, 5347, 5367, 5381, 5382, 2391,  
 5412, 5440, 5460, 5463, 5479, 5499, 5500, 5501, 5503, 5527,  
 5540, 5543, 5551, 5555, 5561, 5565, 5571, 5582, 5597, 5642,  
 5690, 5694, 5759, 5770, 5780, 5810, 5828, 5845, 5847, 5858,  
 5876, 5889, 5899, 5903, 5917, 5919, 5925, 6012, 6028, 6072,  
 6078, 6099, 6111, 6141, 6176, 6181, 6194, 6198, 6208, 6229,  
 6230, 6233, 6282, 6302, 6314, 6325, 6330, 6331, 6364, 6373,  
 4832, 4833, 4834, 4928, 4983, 4994, 4998, 5006, 5042, 5043,  
 5138, 5149, 5162, 5179, 5195, 6379, 6397, 6401, 6405, 6431,  
 6461, 6490, 6523, 6552, 6595, 6596, 6625, 6660, 6702, 6724,  
 6731, 6751, 6763, 6787, 6782, 6811, 6821, 6901, 6927, 6942,  
 7000, 7036, 7106, 7107, 7115, 7120, 7222, 7224, 7252, 7282,  
 7304, 7322, 7351, 7356, 7363, 7367, 7375, 7388, 7390, 7411,  
 7419, 7423, 7424, 7442, 7443, 7457, 7464, 7493, 7519, 7526,  
 7541, 7542, 7550, 7554, 7579, 7642, 7705, 7706, 7723, 7735,  
 7773, 7792, 7793, 7810, 7842, 7865, 7867, 7869, 7871, 7891,  
 7901, 7903, 7915, 7924, 7928, 7930, 7939, 7966, 8004  
**原子发射**—5121, 5129, 5211, 5309, 5406, 5407, 5422, 5429, 5436,  
 5437, 5458, 5459, 5482, 5485, 5488, 5542, 5573, 5575, 5586,  
 5625, 5667, 5686, 5716, 5723, 5741, 5756, 5777, 5778, 5791,  
 5805, 5807, 5813, 5814, 5825, 5836, 5839, 5863, 5883, 5895,  
 5932, 6040, 6068, 6069, 6076, 6119, 6299, 6308, 6309, 6353,  
 6362, 6378, 6390, 6414, 6415, 6423, 6453, 6501, 6593, 6609,  
 6614, 6669, 6671, 6679, 6681, 6703, 6706, 9707, 6723, 6728,  
 6740, 6746, 6760, 6797, 6806, 6831, 6852, 6853, 6873, 6962,  
 6963, 7002, 7081, 7085, 7104, 7129, 7130, 7145, 7149, 7155,  
 7183, 7186, 7201, 7203, 7266, 7287, 7326, 7336, 7340, 7357,  
 7429, 7438, 7440, 7448, 7458, 7459, 7460, 7462, 7470, 7474,  
 7507, 7517, 7531, 7544, 7575, 7581, 7594, 7595, 7596, 7646,  
 7648, 7691, 7700, 7713, 7729, 7761, 7763, 7780, 7800, 7812,  
 7836, 7853, 7870, 7883, 7899, 7910, 8002, 8003, 8005, 8021,  
 8077, 8128, 8166, 8374, 8382, 8434, 8484, 8486, 8595, 8642,  
 8643, 8772, 8775, 8778, 8784, 8815, 8896, 8932, 8969, 9027,

9036, 9047, 9067, 9153, 9253, 9325, 9333, 9036, 9047  
**火焰发射**—7736, 7831, 7934, 8094, 8177, 8201, 8329, 8381, 8385,  
 8433, 8445, 8476, 8516, 8544, 8649, 8782, 8973, 9076, 9202,  
 9218, 9281, 9345  
**原子荧光**—4852, 4865, 4884, 4887, 4945, 4956, 4968, 4975, 4985,  
 5079, 5159, 5168, 5169, 5173, 5214, 5229, 5234, 5238, 5239,  
 5241, 5309, 5316, 5329, 5368, 5579, 5586, 5645, 5648, 5755,  
 5796, 5904, 5908, 5909, 5936, 5971, 5985, 6093, 6094, 6107,  
 6110, 6237, 5256, 6284, 6285, 6286, 6413, 6444, 6465, 6466,  
 6499, 6502, 6506, 6560, 6561, 6605, 6627, 6639, 6640, 6641,  
 6687, 6753, 6754, 6783, 6788, 6797, 6802, 6804, 6805, 6809,  
 6872, 6972, 6987, 6988, 6989, 6994, 6995, 6999, 7023, 7068,  
 7119, 7204, 7285, 7299, 7329, 7353, 7382, 7383, 7415, 7470,  
 7531, 7551, 7552, 7576, 7615, 7616, 7617, 7624, 7657, 7661,  
 7670, 7680, 7742, 7816, 7818, 7836, 7908, 7917, 7938, 7939,  
 7945, 7996, 7997, 8003, 8043, 8113, 8119, 8122, 8126, 8160,  
 8161, 8174, 8261, 8303, 8304, 8328, 8382, 8486, 8543, 8544,  
 8551, 8652, 8722, 8723, 8728, 8729, 8748, 8781, 8782, 9094,  
 8908, 8937, 8984, 9019, 9074, 9104, 9105, 9190, 9207, 9245,  
 9268, 9335, 9358  
**炉 取 样**—4829, 4842, 4845, 4856, 4864, 4872, 4873, 4874, 4960,  
 5044, 4046, 5119, 5124, 5132, 5145, 5155, 5156, 5193, 5194,  
 5197, 5210, 5219, 5273, 5283, 5288, 5325, 5345, 5363, 5368,  
 5423, 5435, 5441, 5474, 5475, 5508, 5510, 5520, 5538, 5539,  
 5547, 5580, 5594, 5604, 5605, 5610, 5627, 5649, 5665, 5666,  
 5668, 5699, 5707, 5733, 5736, 5743, 5776, 5777, 5778, 5783,  
 5784, 5816, 5834, 5840, 5854, 5860, 5876, 5894, 5895, 5896,  
 5965, 5968, 5976, 5989, 6000, 6014, 6015, 6031, 6038, 6039,  
 6044, 6065, 6076, 6083, 6084, 6112, 6121, 6124, 6125, 6130,  
 6132, 6143, 6146, 6152, 6153, 6154, 6186, 6190, 6215, 6227,  
 6242, 6305, 6308, 6309, 6360, 6362, 6414, 6438, 6449, 6451,  
 6453, 6474, 6475, 6476, 6477, 6483, 6493, 6523, 6569, 6581,  
 6582, 6598, 6601, 6602, 6609, 6610, 6613, 6616, 6618, 6619,  
 6620, 6629, 6691, 6692, 6693, 6694, 6697, 6702, 6708, 6735,  
 6760, 6769, 6792, 6795, 6835, 6841, 6862, 6866, 6887, 6890,  
 6900, 6904, 6908, 6932, 6933, 6936, 6938, 6942, 6952, 6955,  
 6960, 6961, 6962, 6968, 6973, 6974, 6975, 6979, 7002, 7031,  
 7041, 7043, 7046, 7058, 7060, 7074, 7087, 7110, 7111, 7115,

7123, 7173, 7174, 7193, 7267, 7281, 7364, 7370, 7381, 7392,  
7404, 7423

间接测定—4917, 4979, 4980, 5053, 5054, 5117, 5165, 5242, 5333,  
5343, 5344, 5360, 5447, 5467, 5502, 5526, 5552, 5577, 5589,  
5594, 5623, 5632, 5634, 5639, 5691, 5692, 5698, 5750, 5754,  
5807, 5808, 5855, 5871, 5881, 5890, 5891, 5955, 5993, 6007,  
6019, 6052, 6053, 6054, 6183, 6184, 6225, 6304, 6313, 6355,  
6436, 6484, 6498, 6524, 6527, 6537, 6539, 6588, 6626, 6675,  
6951, 7000, 7022, 7227, 7292, 7619, 7776, 7902, 7975, 7987,  
7996, 8063, 8240, 8251, 8252, 8273, 8300, 8774, 8802, 8902,  
8903, 8942, 8978, 8980, 9222, 9318, 9336

## 仪 器

工 具—4836, 4837, 4866, 4904, 4907, 4976, 5369, 5372, 5376,  
5476, 5484, 5495, 5525, 5674, 5675, 5859, 5892, 5898, 5915,  
5916, 5931, 5936, 5966, 6117, 6214, 6321, 6360, 6392, 6421,  
6529, 6580, 6584, 6632, 6742, 6875, 6898, 6907, 6939, 6964,  
7032, 7033, 7034, 7093, 7139, 7148, 7197, 7226, 7353, 7647,  
7934, 8119, 8161, 8224, 8228, 8305, 8307, 8319, 8322, 8381,  
8461, 8492, 8595, 8607, 8673, 8674, 8687, 8712, 8737, 8764,  
8785, 8813, 8836, 8883, 8933, 8940, 8949, 8988, 9141, 9177,  
9196, 9249, 9258, 9264, 9274

干 扰—4867, 4876, 4881, 4902, 4913, 4918, 4950, 5007, 5014,  
5065, 5080, 5101, 5102, 5146, 5185, 5210, 5221, 5254, 5280,  
5281, 5287, 5304, 5414, 5418, 5426, 5430, 5441, 5448, 5469,  
5569, 5570, 5590, 5609, 5627, 5672, 5757, 5765, 5766, 5776,  
5778, 5792, 5804, 5823, 5863, 5867, 5878, 5880, 5926, 5968,  
5987, 6003, 6015, 6061, 6067, 6084, 6134, 6152, 6153, 6154,  
6166, 6186, 6227, 6259, 6289, 6292, 6324, 6329, 6338, 6362,  
6363, 6364, 6385, 6414, 6422, 6489, 6525, 6581, 6592, 6594,  
6663, 6681, 6683, 6749, 6798, 6799, 6909, 6922, 6937, 6943,  
6973, 7050, 7065, 7075, 7087, 7104, 7162, 7163, 7164, 7178,  
7179, 7181, 7245, 7271, 7274, 7281, 7283, 7294, 7328, 7330,  
7343, 7355, 7370, 7386, 7397, 7412, 7456, 7567, 7569, 7583,  
7589, 7610, 7614, 7635, 7702, 7733, 7757, 7768, 7794, 7795,  
7820, 7898, 8018, 8088, 8118, 8125, 8242, 8255, 8267, 8314,  
8340, 8398, 8489, 8493, 8575, 8593, 8609, 8614, 8616, 8623,  
8666, 8676, 8678, 8705, 8734, 8735, 8789, 8810, 8860, 8885,

8924, 8941, 8968, 9010, 9023, 9050, 9070, 9084, 9116, 9117,  
 9124, 9133, 9168, 9189, 9200, 9216, 9221, 9286,  
**离子交换分离—**4995, 4997, 4998, 5123, 5243, 5252, 5278, 5340,  
 5353, 5354, 5355, 5626, 5704, 5830, 6043, 6176, 6423, 6539,  
 7089, 7252, 7506, 7580, 7588, 7927  
**分离技术—**8759, 8760, 8761, 8767, 8788, 8806, 8807, 8809, 8810,  
 8812, 8820, 8842, 8843, 8847, 8852, 8855, 8890, 8911, 8928,  
 8943, 8945, 8946, 8953, 8963, 8975, 8977, 8985, 9009, 9020,  
 9024, 9027, 9032, 9033, 9037, 9086, 9092, 9099, 9137, 9145,  
 9155, 9165, 9191, 9209, 9244, 9296, 9307, 9324, 9352,  
**汞/氢化物发生—**7497, 7557, 7559, 7576, 7579, 7586, 7599, 7614,  
 7624, 7628, 7650, 7658, 7659, 7663, 7716, 7726, 7731, 7738,  
 7739, 7742, 7747, 7754, 7774, 7784, 7834, 7901, 7907, 7908,  
 7940, 7945, 7988, 7992, 8008, 8011, 8015, 8023, 8033, 8055,  
 8081, 8084, 8105, 8131, 8145, 8146, 8151, 8161, 8167, 8178,  
 8200, 8206, 8215, 8261, 8263, 8264, 8278, 8298, 8302, 8356,  
 8379, 8387, 8393, 8400, 8422, 8425, 8431, 8443, 8466, 8467,  
 8491, 8501, 8514, 8520, 8530, 8547, 8582, 8596, 8613, 8632,  
 8661, 8688, 8689, 8706, 8709, 8723, 8734, 8743, 8747, 8750,  
 8751, 8765, 8769, 8789, 8810, 9094, 8832, 8848, 8849, 8850,  
 8851, 8890, 8895, 8908, 8914, 8915, 8917, 8920, 8924, 8936,  
 8943, 8947, 8960, 8966, 3968, 8972, 8984, 8990, 9005, 9010,  
 9011, 9012, 9031, 9059, 9069, 9081, 9082, 9104, 9105, 9127,  
 9132, 9139, 9163, 9192, 9212, 9226, 9229, 9233, 9249, 9267,  
 9283, 9306, 9313, 9323, 9339  
**分子发射腔分析—**4849, 4850, 4851, 5224  
**喷雾器—**4961, 4962, 4963, 5140, 5141, 5160, 5274, 5289, 5401,  
 5646, 5684, 5758, 5812, 5836, 5843, 6073, 6100, 6206, 6269,  
 6345, 6410, 6433, 6607, 6710, 6763, 6747, 6786, 7053, 7515,  
 7995, 8001, 8002, 8123, 8139, 8196, 8199, 8272, 8329, 8543,  
 8544, 8548, 8606, 8668, 8727, 8892, 9210, 9304  
**等离子体—**4839, 4843, 4844, 4861, 4931, 5047, 5055, 5057, 5066,  
 5153, 5178, 5212, 5218, 5230, 5232, 5259, 5260, 5261, 5275,  
 5284, 5285, 5294, 5299, 5316, 5337, 5536, 5548, 5550, 5569,  
 5570, 5644, 5646, 5715, 5755, 5760, 5803, 5819, 5820, 5821,  
 5888, 5900, 5914, 5990, 5994, 6001, 6011, 6047, 6062, 6071,  
 6073, 6151, 6185, 6188, 6239, 6247, 6249, 6263, 6265, 6276,  
 6333, 6343, 6344, 6370, 6387, 6390, 6410, 6504, 6530, 6534,

6543, 6545, 6546, 6557, 6563, 6564, 6574, 6575, 6593, 6607,  
 6612, 6651, 6664, 6673, 6682, 6710, 6711, 6718, 6746, 6750,  
 6786, 6806, 6848, 6852, 6876, 6878, 6885, 6893, 6897, 6903,  
 6907, 6930, 6945, 6952, 6964, 6978, 7020, 7040, 7053, 7064,  
 7065, 7071, 7080, 7083, 7086, 7095, 7096, 7102, 7108, 7109,  
 7112, 7155, 7175, 7176, 7203, 7229, 7246, 7280, 7293, 7307,  
 7329, 7340, 7357, 7373, 7412, 7422  
**评 论**—4923, 4957, 4984, 4985, 5144, 5159, 5187, 5191, 5640,  
 5641, 5822, 5946, 6018, 6094, 6116, 6180, 6322, 6350, 6412,  
 6420, 6463, 6507, 6510, 6661, 6721, 6756, 6768, 6825, 6826,  
 6849, 6879, 7045, 7079, 7082, 7205, 7233, 7324, 7332, 7368,  
 7369, 7395, 7417, 7419, 7431, 7522, 7558, 7592, 7657, 7761,  
 7796, 7836, 7850, 7874, 7879, 7918, 7960, 8024, 8028, 8043,  
 8092, 8116, 8132, 8159, 8187, 8197, 8213, 8229, 8267, 8295,  
 8311, 8314, 8346, 8388, 8394, 8396, 8411, 8412, 8416, 8486,  
 8487, 8512, 8514, 8520, 8528, 8574, 8576, 8592, 8604, 9093,  
 8744, 8752, 8784, 8880, 8882, 8994, 9017, 9056, 9061, 9102,  
 9150, 9186, 9197, 9306, 9318, 9328  
**样品制备**—4841, 4842, 4871, 4880, 4890, 4894, 4900, 4987, 5012,  
 5073, 5161, 5581, 5585, 5664, 5677, 5697, 5731, 5747, 5749,  
 5779, 5799, 5811, 5838, 5864, 5866, 5870, 5873, 5875, 5901,  
 5906, 5922, 5934, 5950, 5959, 5986, 5996, 6034, 6144, 6160,  
 6177, 6201, 6223, 6238, 6275, 6320, 6323, 6361, 6368, 6396,  
 6435, 6437, 6438, 6448, 6451, 6454, 6479, 6480, 6483, 6503,  
 6507, 6508, 6566, 6757, 6617, 6650, 6830, 6834, 7024, 7153,  
 7158, 7190, 7210, 7608, 7641, 7739, 7743, 7755, 7792, 7826,  
 7828, 7829, 7870, 7875, 7896, 7953, 7954, 7983, 8039, 8138,  
 8167, 8236, 8290, 8339, 8502, 8558, 8569, 8594, 8694, 8714,  
 8715, 8763, 8770, 8779, 8841, 8844, 8862, 8882, 8936, 9072,  
 9077, 9180, 9217, 9223, 9252, 9272, 9353  
**固体取样**—4852, 5090, 5189, 5679, 5710, 5796, 5842, 5953, 6027,  
 6033, 6038, 6062, 6191, 6316, 6383, 6434, 6835, 6841, 6871,  
 6965, 7208, 7272, 7273, 7449, 7715, 7744, 7746, 7801, 7868,  
 7933, 7935, 8006, 8123, 8153, 8382, 8429, 8536, 8817, 8856,  
 9110, 9124, 9195  
**光 源**—4853, 4865, 4884, 5092, 5093, 5150, 5587, 5631, 5640,  
 5641, 5648, 5651, 5675, 5723, 5905, 6002, 6008, 6024, 6025,  
 6060, 6070, 6090, 6117, 6123, 6166, 6196, 6217, 6221, 6256,

5261, 6452, 6499, 6565, 6586, 6606, 6628, 6670, 6679, 6681,  
6687, 6701, 6706, 6715, 6757, 6809, 6836, 6838, 6845, 6860,  
6888, 6902, 6928, 6972, 6980, 6986, 6994, 6995, 6997, 7054,  
7095, 7097, 7098, 7157, 7165, 7166, 7240, 7285, 7305, 7316,  
7348, 7382, 7383, 7453, 7472, 7474, 7502, 7544, 7575, 7606,  
7617, 7622, 7652, 7652, 7463, 7653, 7668, 7722, 7856, 7997,  
8022, 8029, 8043, 8068, 8069, 8108, 8119, 8141, 8160, 8209,  
8440, 8451, 8452, 8484, 8493, 8510, 8513, 8524, 8572, 8590,  
8605, 8749, 8756, 8772, 8906, 9001, 9067, 9085, 9112, 9153,  
9203

特 殊 取 样 (无 焰) — 4858, 4867, 4877, 4884, 4891, 4893, 4894,  
4898, 4906, 4908, 4911, 4912, 4914, 4918, 4919, 4937, 4947,  
4951, 4955, 4964, 4969, 4973, 4974, 5031, 5034, 5037, 5039,  
5045, 5056, 5058, 5060, 5063, 5069, 5072, 5077, 5078, 5081,  
5083, 5084, 5086, 5090, 5099, 5103, 5108, 5110, 5114, 5117,  
5123, 5128, 5134, 5135, 5136, 5137, 5148, 5169, 5170, 5182,  
5198, 5563, 5595, 5599, 5606, 5614, 5650, 5652, 5656, 5676,  
5681, 5682, 5683, 5687, 5703, 5724, 5725, 5740, 5741, 5746,  
5762, 5768, 5769, 5806, 5811, 5818, 5826, 5829, 5831, 5832,  
5841, 5842, 5851, 5857, 5862, 5867, 5879, 5918, 5921, 5929,  
5937, 5949, 5958, 5959, 5966, 5969, 5974, 5975, 5980, 5982,  
5984, 5995, 5996, 5997, 6006, 6012, 6046, 6048, 6057, 6059,  
6061, 6087, 6088, 6127, 6059, 6061, 6087, 6088, 6127, 6133,  
6134, 6139, 6141, 6161, 6164, 6178, 6182, 6191, 6199, 6204,  
6208, 6224, 6235, 6236, 6237, 6238, 6243, 6252, 6255, 6258,  
6259, 6262, 6266, 6272, 6273, 6274, 6279, 6287, 6288, 6295,  
6301, 6312, 6315, 6324, 6325, 6327, 6335, 6337, 6342, 6347,  
6348, 6355, 6357, 6358, 6363, 6369, 6372, 6375, 6377, 6382,  
6385, 6386, 6391, 6395, 6396, 6399, 6405, 6417, 6418, 6424,  
6455, 6457, 6468, 6485, 6489, 6490, 6491, 6502, 6505, 6517,  
6519, 6524, 6527, 6528, 6539, 6542, 6549, 6550, 6554, 6566,  
6581, 6582, 6598, 6601, 6602, 6603, 6604, 6609, 6610, 6613,  
6616, 6618, 6619, 6622, 6623, 6629, 6637, 6659, 6662, 6677,  
6678, 6685, 6693, 6694, 6698, 6702, 6709, 6713, 6714, 6719,  
6733, 6735, 6737, 6753, 6754, 6755, 6772, 6775, 6788, 6789,  
6793, 6796, 6799, 6814, 6820, 6821, 6832, 6834, 6842, 6844,  
6846, 6858, 6871, 6872, 6874, 6907, 6911, 6925, 6926, 6927,  
6940, 6944, 6948, 6957, 6967, 6976, 6977, 6983, 6992, 6996,



6993, 7009, 7026, 7029, 7038, 7048, 7051, 7062, 7066, 7069,  
7076, 7084, 7089, 7092, 7099, 7118, 7121, 7137, 7150, 7153,  
7190, 7207, 7209, 7214, 7215, 7216, 7222, 7223, 7224, 7226,  
7235, 7236, 7257, 7259, 7262, 7264, 7272, 7273, 7274, 7294,  
7297, 7298, 7304, 7313, 7314, 7319, 7320, 7321, 7325, 7331,  
7339, 7350, 7359, 7360, 7361, 7365, 7372, 7374, 7385, 7387,  
7399, 7407, 7409, 7427, 7443, 7476, 7606, 7680, 7714, 7718,  
7751, 7754, 7760, 7764, 7772, 7777, 7785, 7847, 7919, 7920,  
7923, 7957, 7961, 7979, 7984, 8012, 8041, 8063, 8079, 8093,  
8145, 8162, 8265, 8309, 8310, 8349, 8364, 8391, 8392, 8408,  
8413

**特殊取样**—8432, 8462, 8473, 8503, 8525, 8538, 8555, 8585, 8663,  
8701, 8716, 8773, 8776, 8791, 8792, 8827, 8829, 8856, 8884,  
8894, 8900, 8935, 8942, 8951, 8981, 9046, 9071, 9073, 9091,  
9103, 9118, 9121, 9143, 9151, 9162, 9207, 9232, 9240, 9267,  
9301, 9312, 9314, 9328

**特殊取样(火焰)**—4847, 4855, 4878, 4965, 4966, 5005, 5032, 5036,  
5040, 5052, 5070, 5146, 5168, 5558, 5592, 5605, 5611, 5618,  
5668, 5680, 5702, 5726, 5844, 5877, 5878, 5927, 5944, 5957,  
5978, 5998, 6051, 6088, 6093, 6095, 6115, 6145, 6163, 6310,  
6311, 6336, 6381, 6458, 6459, 6467, 6615, 6634, 6657, 6686,  
6689, 6761, 6766, 6866, 6893, 7088, 7090

**特殊取样(蒸汽发生)**—5589, 5603, 5608, 5620, 5696, 5721, 5782,  
5801, 6041, 6113, 6143, 6174, 6291, 6402, 6479, 6480, 6492,  
6522, 6536, 6589, 6597, 6616, 6745, 6779, 6780, 6783, 6812,  
6870, 6891, 6943, 6987, 6988, 6989, 6990, 7027, 7041, 7052,  
7064, 7065, 7068, 7077, 7085, 7119, 7142, 7168, 7184, 7232,  
7245, 7259, 7299, 7302, 7317, 7333, 7340, 7362, 7380

**技术和理论**—4831, 4844, 4849, 4872, 4895, 4896, 4899, 4960,  
4990, 5017, 5018, 5020, 5021, 5022, 5023, 5024, 5025, 5026,  
5027, 5036, 5079, 5082, 5083, 5097, 5099, 5100, 5104, 5106,  
5109, 5129, 5131, 5150, 5151, 5153, 5154, 5155, 5156, 5160,  
5167, 5175, 5183, 5534, 5535, 5538, 5550, 5556, 5559, 5560,  
5563, 5568, 5600, 5617, 5621, 5622, 5627, 5630, 5638, 5653,  
5654, 5657, 5662, 5693, 5706, 5712, 5714, 5719, 5720, 5729,  
5753, 5786, 5787, 5794, 5795, 5797, 5834, 5884, 5885, 5886,  
5923, 5928, 5938, 5970, 5972, 5976, 5992, 5997, 6001, 6010,  
6011, 6017, 6020, 6029, 6030, 6036, 6074, 6123, 6142, 6151,