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Advanced Wastewater Technology

A Selective, Coded Bibliography

Technical Appraisal
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ADVANCED WASTEWATER TREATMENT: A SELECTIVE, CODED BIBLIOGRAPHY

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Preface

In the past decade, research in the area of advanced wastewater treatment has proliferated with a resultant increase in the related literature. Consequently, it has become increasingly difficult for pollution abatement specialists to keep abreast of recent developments.

A large portion of the significant English-language literature from the period 1965 to July, 1972 is summarized in this bibliography. The papers, reports, or abstracts cited herein have been reviewed, categorized according to the type of process and systematically coded. The advanced (non-conventional) wastewater treatment processes considered, with coding abbreviations indicated in parantheses, include:

Adsorption (AD)

Combination Biological-Chemical processes (BC)

Advanced Biological (BI)

Chemical (precipitation, coagulation, flocculation, etc.) (CH)

Sludge reduction conditioning and disposal (DI)

Electrodialysis (EL)

Evaporation or distillation (EV)

Extraction (EX)

Filtration or microscreening (FI)

Foam separation or flotation (FO)

Freezing (FR)

Ion exchange (IO)

(ii)

Oxidation (chlorination, ozonization, etc.) (OX)

Reverse Osmosis (RO)

Sedimentation or clarification (SE)

Miscellaneous (none of the above -- e.g., ammonia stripping, spray irrigation, ultrafiltration, etc.) (MI).

When different processes are compared, or when several processes are reviewed in a single reference, the respective codings used are (CO) and (RE).

The references are coded at a secondary level with respect to the scale of the study. For example, a laboratory bench-scale or mathematical model investigation is coded as (M), pilot plant as (P) and full-scale as (F).

Where applicable, the references are categorized as to the type of data presented. The following classification scheme, with coding indicated in parentheses, is utilized:

Overall process efficiency data (for one or more parameters) (E)

Efficiency data for bacteria or virus removal (E/B)

Efficiency data for nutrient (nitrogen or phosphorus) removal (E/N)

Efficiency data for removal of organics (E/O)

Design data (D)

Operating data (O)

Process cost data (operating and/or capital costs) (C).

The following example illustrates the utility of the coding system:

<u>CATEGORY CODES</u>	<u>REFERENCE</u>
AD, CH, DI, FI, MI F E/ONB O, C	"Advanced Wastewater Treatment as Practiced at South Tahoe"; U.S. Environ. Protection Agency, Water Quality Office, Water Pollut. Cont. Res. Ser. 17010 ELQ 08/71.

The reference cited above contains information on adsorption, chemical, sludge handling, filtration, and other miscellaneous advanced wastewater treatment processes. The data presented is from full-scale studies with efficiencies for organic, nutrient and bacterial removal reported. In addition, operating and cost data are contained in the report.

References pertaining to the specific treatment processes (e. g., adsorption, combination biological-chemical, etc.) are summarized by number in Tables 1 through 16. Similarly, references which compare several processes or are of a review nature are summarized in Tables 17 and 18, respectively.

The references contained within this bibliography are currently being processed on magnetic tape and will form the nucleus of a continually up-dated advanced wastewater reference system from which process, efficiency, cost, study scale, etc., information may be readily extracted and compiled via computer.

FABLE 1

AD

Adsorption

1	5	7	8	12	13	14	26	27	37
43	44	46	49	54	88	98	102	108	109
114	115	127	136	152	166	173	180	181	182
183	184	187	189	211	215	216	217	221	229
231	246	247	248	249	250	251	252	259	260
262	263	276	277	279	282	283	285	288	293
294	306	320	322	340	341	342	352	377	413
420	421	422	427	431	432	444	454	464	471
477	489	490	518	522	535	536	544	552	553
574	582	598	599	603	608	639	656	657	658
661	662	674	675	676	677	678	679	680	681
691	692	710	716	720	724	729	731	737	750
760	770	774	783	809	818	864	869	873	878
879	880	900	905	910	927	938	962	980	985
994	998	1005	1006	1008	1009	1010	1012	1013	1040
1060	1062	1082	1084	1088	1090	1094	1116	1118	1119
1121	1124	1128	1131	1132	1158	1165	1166	1168	1174
1178	1188	1192	1198	1200	1209	1210	1216	1218	1219
1220	1221	1223-a	1237	1238	1239	1248	1251	1252	1254
1264	1266	1273	1294	1308	1346	1360	1362	1363	1364
1377	1379	1390	1391	1393	1394	1395	1396	1397	1398
1399	1406	1420	1421	1423	1450	1458			

TABLE 2

BC

Combination Biological-Chemical Processes

54	72	74	94	110	124	145	291	295	345	363
378	379	381	382	477	488	542	545	615	616	685
729	740	777	825	889	957	1019	1154	1155	1225	1264
1274	1303	1316	1318	1322	1453					

TABLE 3

BIAdvanced Biological

2	6	16	38	39	40	41	48	50	52
60	62	65	66	67	69	70	76	92	112
120	121	123	131	132	134	139	147	148	153
170	175	185	186	189	192	199	214	239	240
241	253	297	298	299	303	304	312	327	349
351	380	385	401	425	435	442	443	468	483
492	496	497	505	525	528	541	556	558	559
575	586	600	601	603	613	614	617	618	628
633	637	642	643	644	647	650	661	664	665
666	681	689	743	746	751	753	762	764	765
769	771	775	788	793	794	796	806	815	817
823	829	837	852	853	854	855	872	885	887
891	893	894	895	897	901	903	904	908	912
913	915	916	917	922	930	935	937	943	946
947	954	956	974	981	987	990	995	996	1014
1024	1026	1045	1055	1057	1074	1075	1076	1078	1091
1093	1105	1115	1117	1120	1142	1146	1147	1150	1151
1160	1169	1175	1176	1181	1186	1189	1202	1203	1209
1210	1213	1222	1226	1239	1240	1242	1243	1244	1245
1253	1255	1258	1261	1268	1297	1298	1307	1315	1325
1329	1331	1334	1335	1336	1351	1352	1353	1359	1361
1372	1380	1387	1401	1404	1408	1415	1416	1426	1428
1429	1431	1440	1441	1442	1448	1457			

TABLE 4

CHChemical (precipitation, coagulation, flocculation, etc.)

12	13	18	19	20	21	22	23	24	29	30
31	47	53	54	55	58	73	75	82	86	90
91	96	97	101	104	108	109	114	115	118	122
124	127	130	133	155	156	159	162	165	168	169
172	173	176	177	178	180	182	188	198	203	204
206	207	208	211	215	216	220	221	222	223	225
228	229	231	235	265	266	268	269	272	277	279
280	282	283	285	289	290	300	302	306	312	318
325	326	330	331	336	340	341	342	344	345	351
354	355	360	361	365	369	372	384	387	388	392
410	411	415	419	421	422	430	436	437	438	439
440	451	452	454	459	460	461	469	471	475	477
478	479	493	495	498	502	503	501	507	515	518
521	522	526	527	544	549	550	553	560	561	570
571	572	576	578	579	580	587	588	590	593	594
596	598	605	606	608	609	610	639	641	645	648
650	651	652	655	660	667	668	669	670	671	673
677	682	684	687	690	697	706	720	725	744	747
752	754	755	760	766	770	788	790	791	795	797
801	813	814	816	824	828	830	836	845	861	862
865	866	881	888	890	905	907	919	929	933	942
944	945	947	954	958	960	961	962	969	970	971

(cont'd.)

TABLE 4

(cont'd)

CHChemical (precipitation, coagulation, flocculation, etc.)

972	985	986	991	1000	1004	1005	1006	1008
1009	1012	1016	1018	1019	1020	1028	1029	1030
1031	1035	1036	1054	1058	1061	1065	1066	1071
1079	1083	1084	1085	1086	1087	1096	1106	1109
1112	1114	1116	1119	1128	1132	1135	1136	1139
1139-a	1147	1149	1152	1156	1158	1159	1162	1165
1166	1172	1178	1180	1181	1182	1188	1190	1194
1198	1200	1204	1209	1210	1215	1216	1217	1227
1235	1237	1238	1239	1247	1264	1266	1269	1272
1275	1276	1277	1280	1282	1287	1291	1295	1300
1301	1304	1305	1308	1311	1315	1317	1319	1320
1321	1323	1327	1332	1338	1341	1347	1354	1356
1357	1362	1363	1364	1370	1371	1375	1384	1385
1388	1389	1397	1399	1407	1409	1410	1411	1425
1435	1436	1437	1438	1439	1446	1447	1449	1451
1455	1457							

TABLE 5

DI

Sludge Reduction Conditioning and Disposal

3	13	25	61	78	80	93	111	117	142
164	219	308	311	313	314	315	316	317	323
346	347	348	356	362	370	419	424	429	480
484	510	530	531	546	551	583	625	654	694
712	714	742	784	868	962	972	989	990	999
1038	1039	1050	1077	1111	1142	1157	1163	1171	1226
1267	1279	1317	1326	1330	1339	1340	1342	1343	1344
1345	1350	1366	1413						

TABLE 6

EL

Electrodialysis

135	151	157	202	227	367	397	398	444	506
540	554	574	639	739	757	812	860	966	994
1080	1140	1191	1212	1233	1244				

TABLE 7

EV

Evaporation or Distillation

11	257	434	529	584	639	704	715	757	780
925	959	1002	1051	1233	1302	1456			

TABLE 8

EX

Extraction

163	686	700	1092	1218	1427	1452			
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TABLE 9

FI

Filtration or Microscreening

12	13	36	68	75	81	90	91	96	97
101	109	114	120	128	129	136	138	150	153
160	171	174	180	182	192	208	211	215	224
249	267	270	273	274	279	282	283	285	296
306	319	335	336	337	339	343	345	355	360
369	371	375	392	422	423	441	444	445	447
458	471	472	477	479	485	492	515	522	544
547	548	566	568	579	604	607	622	635	636
682	699	708	722	748	756	766	770	781	787
838	841	842	856	862	863	867	882	886	896
905	914	918	920	924	926	929	970	975	976
1005	1008	1009	1012	1014	1025	1052	1064	1079	1113
1114	1120	1122	1128	1146	1158	1164	1178	1183	1184
1185	1204	1216	1223-c	1234	1237	1239	1241	1248	1251
1252	1266	1287	1289	1292	1293	1295	1296	1332	1335
1336	1337	1363	1373	1376	1405	1424	1445	1454	

TABLE 10

FO

Foam Separation or Flotation

126	137	158	180	190	191	242	368	392	455
456	457	463	491	494	532	533	534	535	536
537	538	539	562	602	646	725	728	758	859
995	996	1130	1134	1137	1248	1251	1252	1415	

TABLE 11

FR

Freezing

78	210	429	663	776	786	1047	1340	1383
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TABLE 12

10

Ion Exchange

28	33	42	77	102	114	205	218	227	228
261	287	312	328	333	334	352	353	358	367
373	402	408	418	419	433	473	474	477	486
489	501	508	515	516	523	524	543	619	620
621	629	630	631	652	671	672	673	697	707
723	732	733	734	735	736	738	739	761	811
831	832	850	860	898	906	936	939	947	973
994	997	1015	1017	1033	1034	1069	1082	1094	1144
1145	1168	1223-b	1246	1278	1294	1324	1382	1396	1402
1403	1418	1430							

TABLE 13

OXOxidation (chlorination, ozonization, etc)

12	34	35	45	49	57	63	79	99	113
119	136	138	146	161	167	197	209	213	215
228	234	236	237	238	255	324	352	366	383
392	393	394	396	410	417	448	449	453	463
481	482	485	492	529	544	555	584	585	611
612	632	659	697	702	703	708	717	722	726
727	730	748	768	773	778	782	802	807	820
821	840	851	857	858	870	877	918	921	923
954	955	962	967	968	982	983	984	995	996
1027	1046	1081	1104	1146	1153	1157	1158	1211	1236
1248	1251	1252	1259	1268	1286	1294	1313	1349	1378
1414	1415	1419-a	1419-b	1443					

TABLE 15

SE

Sedimentation or Clarification

17	264	267	271	273	278	302	369	392
450	499	563	564	565	566	579	581	669
701	745	886	985	1079	1120	1147	1185	1199
1223-c	1229	1239	1287	1290	1299	1312	1335	1365
1374	1444							

TABLE 16

MI

Miscellaneous (none of the foregoing -- e. g. , ammonia stripping, spray irrigation, ultrafiltration, etc)

4	12	13	51	83	89	108	125
143	144	149	198	215	228	232	233
254	292	307	310	318	329	364	374
377	399	400	422	426	428	462	465
466	467	487	511	515	567	577	589
592	623	626	640	693	711	718	719
729	748	749	763	790	803	805	807
819	822	873	883	892	909	937	947
952	954	962	963	965	1001	1009	1011
1021	1043	1048	1063	1067	1068	1107	1125
1141	1165	1170	1178	1187	1193	1195	1196
1205	1207	1208	1218	1223-c	1227	1248	1250
1251	1252	1287	1292	1294	1305	1328	1336
1358	1367	1412	1422	1459			

TABLE 17

CO

(Coding used when different processes are compared)

200	404	410	638	653	848	903	1041
1082	1214	1262	1265	1285	1294	1336	1348
1434							

TABLE 18

RE(Coding used when several processes are reviewed in a single reference)

9	10	59	71	84	85	100	103
107	137	140	154	193	194	195	196
207	218	223	230	235	243	244	256
263	268	269	275	281	284	286	309
326	338	350	357	376	385	386	390
391	403	405	406	407	409	480	512
513	514	517	557	569	648	649	683
685	688	698	700	709	732	735	736
741	757	767	785	789	798	799	827
843	844	846	847	849	851	871	874
877	884	902	911	915	931	940	941
951	953	969	970	977	978	982	992
993	1022	1023	1032	1037	1042	1049	1053
1056	1059	1065	1070	1072	1073	1110	1123
1126	1127	1138	1143	1148	1152	1153	1161
1167	1191	1206	1232	1237	1249	1256	1260
1263	1264	1267	1270	1271	1281	1283	1284
1285	1288	1306	1309	1310	1333	1335	1355
1389	1392	1400	1418	1432	1433	1434	

SELECTED REFERENCES ON
ADVANCED WASTE TREATMENT

NO.	CATEGORY CODES	REFERENCE
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2	BI E/N D	"A Study of Nitrification and Denitrification", by Aeroject-General Corp., El Monte, Calif., Environ. Protection Agency, Water Pollut. Cont. Res. Ser. 17010 DRD 07/70
3	DI	"A Study of Sludge Handling and Disposal", by R. S. Burd, Dow Chemical Company; U. S. Dept. of the Interior, FWQA, Rept No. WP-20-4 (PH 86-66-32), May 1968.
4	MI	"A Technique for the Removal of Algae in Water Reclamation", South African Council for Scientific and Industrial Research, National Institute for Water Research, Director's Report for 1965, C.S.I.R. Spec. Rep WAT 37, 1965, 30 pp.; Wat. Pollut. Abstr (Brit.), 40, 106 (1967).
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15	RO	Agrawal, J.P., and Sourirajan, S., "Reverse Osmosis"; Industrial and Engineering Chem., 61, 11, 62 (1969).
16	BI D	Ahlberg, N. R., and Boyko, B.I., "Evaluation and Design of Aerobic Digesters"; Jour. WPCF, 44, 4, 634 (1972).
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18	CH	Akyel, H., and Neven, M., "High Molecular Weight Organic Synthetic Flocculants in Modern Waste Water Treatment". Chem. Ingr. Tech. (Germany) 39, 172 (1967); Chem. Abs. 67, 25248 (1967).
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27	AD M D	Allen, J.B. et al., "Process Design Calculations for Adsorption from Liquids in Fixed Beds of Granular Activated Carbon". Jour. WPCF, 39, 2, 217 (1967).
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30	CH E/N	Ames, L.L., "The Use of Alumina Columns for Phosphorus Removal from Secondary Sewage Effluents". Robert A. Taft Water Res. Center, TWRC-8 (1969).
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33	IO E/N	"Ammonia Removal from Agricultural Runoff and Secondary Effluents by Selected Ion Exchange", by Battelle Memorial Instit., Pacific NW Laboratories, Richland, Wash.; Environmental Protection Agency, Water Quality Office, Wash., D.C., Rept. No. 17010ECZ 03/69.

NO.	CATEGORY CODES	REFERENCE
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