

## DAFTAR PUSTAKA

- Aikenhead, G.S. "The Measurement of High School Students' Knowledge about Science and Scientists." Science Education, 1973, 57(4), 539-549.
- Amien, M. Mengajarkan Science dengan Menggunakan Metoda Discovery-Inquiry. Yogyakarta: FKIE IKIP Yogyakarta, 1978.
- Amien, M., & Prawoto. Apakah Science itu? Yogyakarta: FKIE IKIP Yogyakarta, t.t.
- Anastasi, A. Psychological Testing. New York: Macmillan, 1968.
- Astin, A.W. 'Undergraduate Achievement and Institutional "Excellence",' Science, 1968, 161, 661-668.
- Best, J.W. Research in Education. New Delhi: Prentice-Hall of India, 1977.
- Bloom, B.S. (Ed.). Taxonomy of Educational Objectives. The Classification of Educational Goals. Handbook I: Cognitive Domain. London: Longman, Green and Co Ltd., 1956.
- Bloom, B.S., Hastings, J.T., & Madaus, G.F. Handbook on Formative and Summative Evaluation of Student Learning. New York: McGraw-Hill, 1971.
- Brandwein, P.F. "A General Theory of Instruction with References to Science," Science Education, 1979, 63(3), 285-297.
- Brewer, A.C., Garland, N., Edwards, T.F., Marshall, A., & Notkin, J.J. Elementary Science: Learning by Investigating, Level 5 Teacher's Edition. Chicago: Rand McNally & Company, 1974.
- Bridgman, P.W. The Logic of Modern Physics. New York: The Macmillan Company, 1960.
- Brown, S. Attitude Goals in Secondary School Science. t.k.: Departmen of Education, University of Stirling, 1976.

- \_\_\_\_\_. "Ways of Assessing How Effectively A Curricular Innovation Has Been Implemented," Southeast Asian Workshop on Techniques of Measurement of Education with Particular reference to Science and Mathematics 13th - 18th March 1978. Final Report. Penang: Seameo Recsam, 1978.
- Bruner, J.S. The Process of Education. New York: Vintage Books, 1960.
- Butts, D.P., & Hall, G.E. Children and Science, The Process of Teaching and Learning. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1975
- Bybee, R.W. "The New Transformation of Science Education," Science Education, 1977, 61(1), 85-97.
- Casio. FX-501P/FX-502P Program Library, t.k., t.t.
- Cocran, W.G. Sampling Techniques. New York: John Wiley & Sons, 1977.
- Cohen, R.S. "Individuality and Common Purpose, the Philosophy of Science," Science Teacher, May 1964.
- Cohen, R.D. 'Problem of "Retreading" Science Teachers, Part II,' Science Education, 1972, 56(3), 417-421.
- Combs, A.W., Aspy, D.N., Brown, D.M., Clute, M.J., & Hicks, L.H. Humanistic Education: Objectives and Assesment. Washington: Association for Supervision and Curriculum Development, 1978.
- Cooley, W.W., & Klopfer, L.E. Test on Understanding Science; Princeton, N.J.: Educational Testing Service, 1961.
- Commission on Science Education of the American Association for the Advancement of Science. Science A Process Approach, Commentary for Teachers. Washington, D.C.: Commission on Science Education of the AAAS, 1970.
- Coxhead, P., & Whitfield, R. Science Understanding Measure. Oslo: Imtec Technical Advisory Services, 1979.

- De Landsheere, V. "On Defining Educational Objectives," Bruce H. Choppin and T. Neville Postlethwaite (Eds.). Evaluation in Education: International Progress, 1977, 1(2), 77-190.
- Departemen Pendidikan dan Kebudayaan Republik Indonesia. Kurikulum Sekolah Menengah Atas (SMA) 1975, Garis-Garis Besar Program Pengajaran, Buku: II. F., Bidang Studi: Ilmu Pengetahuan Alam. Jakarta: Departemen Pendidikan dan Kebudayaan Republik Indonesia, 1975.
- Dewey, J. Democracy and Education. New York: The Macmillan Company, 1951.
- Edwards, A.J. Techniques of Attitude Scale Construction. Bombay: Vakils, Reffer and Simons Private Ltd., 1969.
- Eggen, P.D., Kauchak, D.P., & Harder, R.J. Strategies for Teachers. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1979.
- Eiss, A.F., & Harbeck, M.B. Behavioral Objectives in the Affective Domain. Washington, D.C.: National Science Teachers Association, 1969.
- Emans, R. "Teacher Attitude as a Function of Values," The Journal of Educational Research, 1969, 62 (10), 459-463.
- Festinger, L. A Theory of Cognitive Dissonance. New York: Harper & Row, 1957.
- FKIE IKIP Bandung. Buku Pedoman Tahun Akademik 1980 - 1981. Bandung: FKIE IKIP Bandung, 1980.
- FKIE IKIP Surabaya. Buku Pedoman 1975. Surabaya: FKIE IKIP Surabaya, 1974.
- Freeman, F.S. Theory and Practice of Psychological Testing. New York: Holt, Rinehart, and Winston, 1955.
- Gagne, R.M. "Science A Process Approach," Robert B. Sund and Rodger W. Bybee (Eds.). Becoming a Better Elementary Science Teacher. Columbus, Ohio: Charles E. Merrill Publishing Company, 1973, 201-215

- Garnadi Prawirosudirjo. Inquiry and Integrated Approaches in Physiology in Secondary Schools. t.k., t.t.
- \_\_\_\_\_. Biology Teaching Through an Integrated Approach. Kertas kerja yang dikemukakan kepada Third Conference of the Asian Association for Biology Education di Manila. t.k.: 1971.
- Goodlad, J.I. School Curricular Reform in the United States. New York: Fund for the Advancement of Education, 1964.
- Gronlund, N.E. Measurement and Evaluation in Teaching. New York: Macmillan Publishing Co., Inc., 1976.
- Guilford, J.P. The Nature of Human Intelligence. New York: McGraw-Hill Book Company, 1967.
- Guilford, J.P., & Fruchter, B. Fundamental Statistics in Psychology and Education. Tokyo: McGraw-Hill Kogakusha, Ltd., 1978.
- Havighurst, R.J., & Neugarten, B.L. Society and Education. Boston: Allyn and Bacon, Inc., 1962.
- Head, J.O. "Methods and Techniques of Teaching," C.R. Sutton and J.T. Haysom (Eds.) The Art of the Science Teacher. London: McGraw-Hill Book Company (UK) Ltd., 1974.
- Heffernan, D.P. A Comparison of the Effects of Individualized Science Instruction with Traditional Science Instruction in Junior High School. New York: The University of Rochester, 1973.
- Houston, W.R., & Howsam, R.B. (Eds.). Competency Based Teacher Education: Progress, Problems, and Prospects. Palo Alto: Science Research Associates, Inc., 1972.
- Hovland, C.I., Janis, I.L., & Kelly, H.H. Communication and Persuasion. New Haven: Yale Univer. Press, 1953.
- Institut Keguruan dan Ilmu Pendidikan Bandung. Pedoman Akademik IKIP Bandung. Bandung: IKIP Bandung, 1981.



- Institut Keguruan dan Ilmu Pendidikan Surabaya. Buku Pedoman IKIP Surabaya 1981/1982. Surabaya: IKIP Surabaya, 1981.
- Jensen, A. "Race Differences," Leonard W. Schmalz (Ed.). Scientific Psychology and Social Concern. New York: Harper & Row, 1971.
- Joyce, B., & Weil, M. Models of Teaching. Englewood Cliffs, N.J.: Prentice-Hall, 1972.
- Jujun S. Surjasumantri. Kegunaan PPBS dan Contoh Penerapannya dalam Pengembangan Pendidikan Tinggi di Indonesia. Jakarta: BP3K Departemen Pendidikan dan Kebudayaan R.I., 1975.
- Kerlinger, F.N., & Fedhazur, E.J. Multiple Regression in Behavioral Research. New York: Holt, Rinehart and Winston, Inc., 1973.
- Klopfer, L.E. "Evaluation of Learning in Science," Benjamin S. Bloom, J. Thomas Hastings, and George F. Madaus (Eds.). Handbook on Formative and Summative Evaluation of Student Learning. New York: McGraw-Hill Book Company, 1971, 559-641.
- \_\_\_\_\_. "A Structure for the Affective Domain in Relation to Science Education," Science Education, 1976, 60(3), 299-312.
- \_\_\_\_\_. "Preface: Science Education in the 1980s," Science Education, 1980, 64(1): 1-6.
- Krathwohl, D., Bloom B.S., & Masia, B.B. Taxonomy of Educational Objectives, Handbook II: Affective Domain. London: Longmans, Green and Co Ltd., 1964.
- Krech, D., Crutchfield, R.S., & Ballachey, E.L. Individual in Society. Tokyo: McGraw-Hill Kogakusha, Ltd., 1962.
- Lewy, A. (Ed.). Handbook of Curriculum Evaluation. Paris: Unesco, 1977.
- Maslow, A.H. Motivation and Personality. New York: Harper & Row, 1954.
- McGrath, J.E. Social Psychology: A Brief Introduction. New York: Holt, 1964.

- McKinnon, J.W., & Renner, J.W. "Are College Concerned with Intellectual Development," American Journal of Psychology, 1971, 39, 1047-1052.
- McClelland, D.C. "Toward a Theory of Motive Acquisition," Henry Clay Lingren, Donn Byrne and Frederica Lindgren (Eds.). Reading in Psychology. New York: John Wiley and Sons, 1971, 257-267.
- Menteri Pendidikan dan Kebudayaan Republik Indonesia. Keputusan Menteri Pendidikan dan Kebudayaan Republik Indonesia No.0124/U/1979. Jakarta: Departemen Pendidikan dan Kebudayaan Republik Indonesia, 1979.
- Modgil, S. Piagetian Research, A Handbook of Recent Studies. Windsor, Berks.: NFER Publishing Company Ltd., 1974.
- Mohamad Nur. Studi tentang Ketrampilan Proses Sains terhadap Mahasiswa FKIE IKIP Bandung, (Prasurvai). Paper individual SPS IKIP Bandung yang tidak dipublikasikan, 1980.
- Mohamad Nur, Karti Suharta, & Supari. Studi tentang Ketrampilan Proses Sains terhadap Mahasiswa FKIE IKIP Surabaya, (Prasurvai). Surabaya: Lembaga Penelitian Pendidikan IKIP Surabaya, 1980.
- Neale, D.C., Gill, N., & Tismer, W. "Relationship Between Attitudes Toward School Subjects and School Achievement," The Journal of Educational Research, 1970, 63(5), 232-237.
- Newcomb, T.M. Social Psychology. New York: Holt, 1950.
- Niles, O. "Developing Essential Reading Skills in the English Program," Reading and Inquiry. Newark, Delaware: International Reading Association, 1965.
- Piaget, J. The Origin of Intelligence in Children. New York: W.W. Norton, 1952.
- Raven, J.C. Guide to the Standard Progressive Matrices Sets A, B, C, D and E. Yogyakarta: Fakultas Psikologi UGM, 1972.
- Shaw, M.E., & Wright, J.M. Scales for the Measurement of Attitudes. New York: McGraw-Hill Book Company, 1967.

- Sherif, M., & Sherif, C.W. An Outline of Social Psychology. New York: Harper & Row, 1956.
- Smith, F. Comprehension and Learning. New York: Holt, Rinehart and Winston, 1975.
- Spearman, C. The Abilities of Man. New York: Mcmillan, 1927.
- Stake, R.E., Easley, J.A., et al. Case Studies in Science Education. Urbana, IL: Center for Instructional Research and Curriculum Evaluation, University of Illinois, 1978.
- Stanley, J.C., & Hopkins, K.D. Educational & Psychological Measurement & Evaluation. New Delhi: Prentice-Hall of India Private Ltd., 1978.
- Stoddard, G.D. The Meaning of Intelligence. New York: Macmillan, 1943.
- Strasser, B.B., Babcock, R.W., Cowan, R., Davis, G.T., Gothold, S.E., & Rudolph, J.R. Teaching Toward Inquiry. t.k. : National Education Association of the United States, 1971.
- Sudjana. Metoda Statistika. Bandung: Tarsito, 1975.
- \_\_\_\_\_. Misain dan Analisis Eksperimen. Bandung: Tarsito, 1980.
- Sumadi Suryabrata. Pengukuran dalam Psikologi Kepribadian. Pidato Pengukuhan sebagai Guru Besar dalam Psikologi Universitas Gajah Mada, tanggal 23 Juni 1979. Yogyakarta: Yayasan Penerbitan Fakultas Psikologi UGM, 1979.
- Sund, R.B. Piaget for Educators, A Multimedia Program. Columbus, Ohio: Charles E. Merrill Publishing Company, 1976.
- Sund, R.B., & Bybee, R.W. "Piaget and the Teacher," Robert B. Sund & Rodger W. Bybee (Eds.). Becoming a Better Elementary Science Teacher. Columbus, Ohio: Charles E. Merrill Publishing Company, 1973.
- Sund, R.B., & Trowbridge, L.W. Teaching Science by Inquiry in the Secondary School. Columbus, Ohio: Charles E. Merrill Publishing Company, 1973.

- Sund, R.B., & Carin, A. Creative Questioning and Sensitive Listening Techniques, A Self-Concept Approach. Columbus, Ohio: Charles E. Merrill Publishing Company, 1978.
- Sund, R.B., & Picard, A.J. Behavioral Objectives and Evaluational Measures Science and Mathematics. Columbus, Ohio: Charles E. Merrill Publishing Company, 1972.
- Susana Raby (Ed.). Intelligence: The Battle for the Mind, H.J. Eysenck Versus Leon Kamin. London: Pan Books, 1981.
- Tawney, D.A. "The Nature of Science and Scientific Inquiry," C.R. Sutton and J.T. Haysom (Eds.). The Art of Science Teacher. London: McGraw-Hill Book Company (UK) Ltd., 1974, 19-29.
- Taylor, C.W. "Multiple Talent Approach Teaching Scheme in which Most Students Can Be Above Average," The Instructor, April 28, 1968.
- Thompson, B.S., & Voelker, A.M. "Program for Improving Science Instruction in the Elementary School," Robert B. Sund & Rodger W. Bybee (Eds.). Becoming a Better Elementary Science Teacher. Columbus, Ohio: Charles E. Merrill Publishing Company, 1973.
- Thurstone, L.L. "Attitude Can Be Measured," American Journal of Sociology, 1928, 33, 529-554.
- \_\_\_\_\_. Primary Mental Abilities. (Psychometric Monograph No.1). Chicago: University of Chicago Press, 1938.
- Tisna Amidjaja, D.A. Pola Pembaharuan Sistem Pendidikan Tenaga Kependidikan di Indonesia. Jakarta: Departemen Pendidikan dan Kebudayaan Proyek Pembinaan dan Pengendalian Proyek-Proyek Direktorat Jendral Pendidikan Tinggi, 1980a.
- \_\_\_\_\_. Pedoman Pelaksanaan Pola Pembaharuan Sistem Pendidikan Tenaga Kependidikan di Indonesia. Jakarta: Departemen Pendidikan dan Kebudayaan Proyek Pembinaan dan Pengendalian Proyek-Proyek Direktorat Jendral Pendidikan Tinggi, 1980b.
- Toffler, A. Future Shock. London: Pan Books Ltd., 1970.



- Tricker, R.A.R. "The Nature of Science," Edgar Jenkins and Richard Whitfield (Eds.). Reading in Science Education. London: McGraw-Hill Book Company (UK) Ltd., 1974, 11-24.
- Tuckman, B.W. Measuring Educational Outcomes, Fundamentals of Testing. New York: Harcourt Brace Jovanovich, Inc., 1975.
- \_\_\_\_\_. Conducting Educational Research. New York: Harcourt Brace Jovanovich, Inc., 1978.
- Watson, F.R. "The Pupil's Thinking," C.R. Sutton and J.T. Haysom (Eds.). The Art of the Science Teacher. London: McGraw-Hill Book Company (UK) Ltd., 1974.
- Wechsler, D. The Measurement and Appraisal of Adult Intelligence. Baltimore: Williams & Wilkins, 1958.
- Welch, W.W., Aikenhead, G.S., Klopfer, E., & Robinson, J.T. Inquiry Report I. Oslo: Intec Technical Advisory Services, 1978.
- Wojowasito, S., & Tito Wasito. Kamus Lengkap. Bandung: Hasta, 1980.

