Inventory of the Hans A. Einstein Sediment Transport Collection, 1930-1970

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Inventory of the Hans A. Einstein Sediment Transport Collection, 1930-1970

Collection number: MS 76/12

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Descriptive Summary
Title: Hans A. Einstein Sediment Transport Collection,
Date (inclusive): 1930-1970
Collection number: MS 76/12
Creator: Einstein, H. A. (Hans Albert), 1904-1973
Extent: ca. 12 linear ft. (11 boxes; 940 items)
Repository: Water Resources Collections and Archives
Riverside, CA 92517-5900
Shelf location: This collection is stored off-campus at NRLF. Please contact the Water Resources Collections and Archives staff for access to the materials.
Language: English.

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Collection is open for research.

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Preferred Citation
[Identification of item], Hans A. Einstein Sediment Transport Collection, MS 76/12, Water Resources Collections and Archives, University of California, Riverside.

Scope and Content
During Dr. Einstein’s graduate studies at the Swiss Federal Institute of Technology in Zurich he became deeply interested in the fundamental mechanics of the transportation of sediment by flowing water. His doctoral thesis, Bed load transport as a probability problem (1936), is the definitive work on sedimentation transportation as recognized by engineers and
scientists throughout the world. In 1938, Dr. Einstein immigrated to the United States where he continued his research on the transport of sediment, first with the U.S. Department of Agriculture and later at the University of California where he joined the faculty in 1947. In his long years of teaching and research, until his untimely death in 1973, Professor Einstein built up an extensive file of literature covering all of the various aspects of the scour, movement, and transport of sediment. Over twenty-five categories of subject matter were represented in the collection and included both published and unpublished material—many of which were very limited editions. This collection was readily available to Professor Einstein's graduate students, other faculty members, and practicing engineers outside the University. It is fortunate for the engineering community that upon the death of Professor Einstein his widow, Elizabeth Roboz Einstein, presented the entire Einstein collection to the Water Resources Collections and Archives where this valuable collection of source material is available to all researchers.

Access Points
Hydraulics
Soil erosion
Hydraulic measurements
Soil conservation
Channels (Hydraulic engineering)
Bed load
Sediment transport
Water-pipes -- Hydrodynamics
Stream measurements
Sediment, Suspended
Sediment control
Sedimentation analysis

Key to the Arrangement
The presentation of the citations here is in the same subject arrangement of the materials devised by Dr. Einstein.

A - Soil Erosion, Scour
B - Soil Conservation and Watershed Erosion
C - Bed Load
D - Suspended Load
E - Indian Theory
F - Stable Channels
G - Heavy Mineral
H - River Measurements
I - Transport in Pipes
J - Wash Load
K - Beach Transport
L - Density Current
M - Reservoirs
N - Channel Irregularities
O - Sediment Properties
P - Mechanical Analysis
Q - Hydraulics
R - Sampling Equipment, Measurement Methods
S - Segregation
T - Sediment Structures
U - Estuaries
V - Sediment Models
W - Wind Transport
X - Geology
Y - Sediment Bibliography
Z - Miscellaneous

Box 1
A-1 - C-16
Box 2
C-19 - C-124
Box 3
C-128 - E-9
Box 4
E-10 - H-19
Box 5
H-20 - I-44
Box 6
I-45 - M-41
Box 7
M-42 - N-66
Box 8
N-69 - S-18
Box 9
S-19 - U-77
Box 10
V-1 - Y-19
Box 11
Y-24 - Z-57

Related Collections
Hans A. Einstein Papers (MS 80/8)
Hans A. Einstein Flow Collection (MS 89/4)

SOIL EROSION - SCOUR

Box 1, Othertype A-1
  Herschel, Clemens. On the erosive and abrading power of water upon the sides and
  the bottom of rivers and canals, *Journal of the Franklin Institute*, Vol.105, No.6, June

Othertype A-2
  Wilson, Walter T. *Report on volume of bed and bank erosion of East and West Tarkio
  Creeks above the gaging stations since these creeks were straightened*. 1939.
  Physical Description: 2 l. [typescript].

Othertype A-3
  pp.196-197.

Othertype A-4
  Tison, L.J. *Erosion of the bottom of river beds*. 1939.
  Physical Description: 14 p. [typescript].

Othertype A-5
  Wright, Chilton A. *Experimental study of the scour of a sandy river bed by clear and
  by muddy water*, *Journal of Research of the National Bureau of Standards*, Vol.17,

Othertype A-6
  Physical Description: 142 p.
  Scope and Content Note
Othertype A-7  
Physical Description: 3 p.

Othertype A-8  
Physical Description: 16 p.  
Scope and Content Note  
(The Association's [Publication] no.29, prelim.).

Othertype A-9  
Physical Description: 24 p.  
Scope and Content Note  
(The Istituto's Memorie e studi no.103).

Othertype A-10  
Physical Description: 60 p.  
Scope and Content Note  
(The Board's Bulletin no.4).

Othertype A-11  
Physical Description: 9 p.  
Scope and Content Note  
(The Institutionen's Meddelande no.7).

Othertype A-12  
Physical Description: 1 fold.sheet.

Othertype A-14  
Physical Description: 13 p.  
Scope and Content Note  
(The Istituto's Memorie e studi no.99).

Othertype A-16  

  Physical Description: 76 p.
  Scope and Content Note
  (U.S. Dept. of Agriculture, Technical bulletin 916).


  Physical Description: 31 p.
  Scope and Content Note
  (The Station's Bulletin 357).


  Physical Description: 4+ l.


  Physical Description: 23 l.


  Physical Description: 8 p.
  Scope and Content Note


  Physical Description: 6 p.
  Scope and Content Note
  (Estratto dal fascicolo no.6, Vol.XXV, 1948 della Rivista Mensile L'energia Elettrica).
Othertype A-38  

Physical Description: 22 l.

Othertype A-39  

Physical Description: 79 p.
Scope and Content Note
(The Centro's Publicação no.3).

Othertype A-40  

Othertype A-42  

Physical Description: 7 p.

Othertype A-47  

Physical Description: 137 p.
Scope and Content Note
(The Laboratorio's Memoria no.174).

Othertype A-49  

Physical Description: 19 p.

Othertype A-50  

Physical Description: 16 l.

Othertype A-59  

Physical Description: 129 p.
Scope and Content Note
(Mitteilungen nr.68).

Othertype A-63  

Physical Description: 8 p.
Scope and Content Note
(Mitteilungen nr.70).

Othertype A-64  


Physical Description: 2 p.

Physical Description: 28 p.


Physical Description: 1 vol.
Scope and Content Note
(The Institute's Reprints and preliminary reports no.6).


Physical Description: 102 p.


Physical Description: 119 p.
Scope and Content Note
(The Department's Civil engineering report no.19).


Physical Description: 111 p.
Scope and Content Note
(technical bulletin no.1379).


Physical Description: 16 p.


Abdel-Aal, Farouk M. Armorplate as a protection against scour, reprint from the *Egyptian Society of Engineers Journal, June 1972.*

Physical Description: [6 p.]
SOIL CONSERVATION & WATERSHED EROSION

Box 1, Othertype B-1

Ayers, Quincy C. *Recommendations for the control and reclamation of gullies*. Ames, Iowa State College of Agriculture and Mechanic Arts, 1935.
   
   Physical Description: 71 p.
   
   Scope and Content Note
   
   (Iowa Engineering Experiment Station, Bulletin 121).

Othertype B-6


Othertype B-7

   
   Physical Description: 6 p.
   
   Scope and Content Note
   
   (The Service's TP-84).

Othertype B-8


Othertype B-10

   
   Physical Description: 28 p.
   
   Scope and Content Note
   
   (The Service's TP-115).

Othertype B-12

*The nature of the problem, objectives, methods and results of soil conservation research.* [n.p., n.d.]
   
   Physical Description: 20 l.

Othertype B-14

   
   Physical Description: 21 l.
   
   Scope and Content Note
   
   (The Service's EP-8).

Othertype B-15

   
   Physical Description: 24 l.
   
   Scope and Content Note
   
   (The Service's TP-44).

Othertype B-16

   
   Physical Description: 35 p.

Othertype B-17

Ramser, C.E. *Outline and summary of engineering experiments on erosion control on the ten soil erosion experiments of the U.S. Department of Agriculture*. [n.p.] 1935.
   
   Physical Description: 66 p.

Othertype B-18

   
   Physical Description: 22 p.
Othertype B-20


Physical Description: 46 p.
Scope and Content Note
(The Department's Circular no.660).

Othertype B-21


Physical Description: 89 p.
Scope and Content Note
(Its Technical memorandum).

Othertype B-23


Othertype B-25


Othertype B-26


Othertype B-27


Othertype B-28


Physical Description: 20 l.
Scope and Content Note
(The Service's TP-102).


  Physical Description: 12 p.

Othertype B-56  Deatrick, E.P. Methods for the determination of soil content of erosion water-soil mixtures, West Virginia Academy of Science, Geology and Mining Section [n.d.]. pp.97-104.


  Physical Description: 16 p.

Othertype B-60(a.b) Bennett, H.H. Lecture II (Feb. 1, 1928) and Lecture III (Feb. 3, 1928) [on erosion].
  Physical Description: 15 p. and 25 p. [typescript]

  Physical Description: 95 p.
  Scope and Content Note
  (The Service's Technical bulletin no. 888).

  Physical Description: 9 l. [typescript].

  Physical Description: 7 p.

Othertype B-69  Dragoun, Frank J. Sediment yields from a treated and an untreated watershed as related to rainfall energy at Hastings, Nebraska. 1959.
  Physical Description: 20 l. [typescript].

Othertype B-70  Dvorak, Verne I. Status of Medicine Creek long term sediment yield determinations. 1959.
  Physical Description: 12 l. [typescript].

  Physical Description: 5 l. [typescript].

  Physical Description: 5 l. [typescript].
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<td>B-74</td>
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<td><em>Relation of sediment yield to rainfall on four small watersheds at the Holly Springs Branch Experiment Station.</em> 1959.</td>
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<td><em>Relation of sediment yield to rainfall from small plots.</em> 1959.</td>
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**BED LOAD**

<p>| Box 1, | Du Boys, M.P. | The Rhone and rivers with beds subject to scour - study of the regime of the Rhone and the action caused by water upon a bed of gravel indefinitely subject to scour, <em>Annales des Ponts et Chausées,</em> Vol.8, 1879. |
| C-1     |           | Physical Description: 58 l. [typescript]. |
|         |           | Physical Description: 77 p. |
| C-4     | Putzinger, Josef | <em>Grade adjustment of bed-load carrying streams and rivers,</em> <em>Zeitschrift des Oesterr. Ing. u. Arch.-Vereines,</em> Heft 13, March 28, 1919. pp.119-123, |
|         |           | Physical Description: [typescript]. |
|         |           | Physical Description: 71 p. |
|         |           | Scope and Content Note |
|         |           | (Mitteilungen, Heft 9). |</p>
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<td>O'Brien, Morrough P. Notes on the transportation of silt by streams, reprint from Transactions of the American Geophysical Union, 17th Annual Meeting, 1936.</td>
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<td>C-35</td>
<td>Shields, A. Application of similarity principles and turbulence research to bed-load movement. Pasadena, California Institute of Technology and U.S. Soil Conservation Service, 1936.</td>
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Physical Description: 9 p. |
Physical Description: 10 l. [typescript]. |
Physical Description: 122 l. |
Physical Description: 30 p.  
Scope and Content Note  
(The University's Studies in Engineering bulletin no.29). |
Physical Description: 26 p. |
Physical Description: 7 p. |
Physical Description: 166 l. |
Physical Description: 90 p.  
Scope and Content Note  
[Published in Japanese]. |
Physical Description: 1 folder, graphs and tables. [loose-leaf]. |
Physical Description: 4 p.  
Scope and Content Note  
(Mitteilungen aus der Versuchsanstalt für Wasserbau und Erdbau an der Eidgenössischen Technischen Hochschule in Zürich, Nr.16). |


Physical Description: 21 l. [typescript].


Physical Description: 24 l. [typescript].


Physical Description: 40 l. [typescript].


Physical Description: 18 l. [typescript].


Physical Description: 27 l.


Physical Description: pp.70-86.


Physical Description: 8 p.


Physical Description: 4 p.

Othertype C-82  Seifert. Investigations concerning the transportation of bed-loads in watercourses with variable beds, especially concerning the formation of the bottom on sand banks and in depressions. Connections between transportation of bed-loads, water velocity, and depth as well as specific weight and grain size of the bed-load, according to laboratory tests and field observations, translation from Question 3, Report 8, *Report of the Washington Meeting of the International Association of Hydrology*, Vol. I, 1939.

Physical Description: 8 p.


Physical Description: 11 p.
Othertype C-84  

Physical Description: 43 p.
Scope and Content Note
(Mitteilungen, Heft 37).

Othertype C-85  

Physical Description: 13+ l.

Othertype C-86  

Othertype C-87  

Physical Description: 3 p.

Othertype C-88  

Othertype C-89  

Physical Description: 12 p.

Othertype C-90  

Othertype C-91  

Physical Description: 25 l.
Scope and Content Note
(Traduction no.480).

Othertype C-92  

Physical Description: 28 l.
Scope and Content Note
(Traduction no.501).

Othertype C-93  

Physical Description: 5 l.
Scope and Content Note
(Traduction no.499).

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<td>C-107</td>
<td>Bank protection studies.</td>
<td>U.S. Army Corps of Engineers. Linnton Hydraulic Laboratory.</td>
<td>Physical Description: 32+ l.</td>
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<td>Discussion - Paper 1530, The total sediment load of streams, by Emmett M. Laursen.</td>
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<td>Physical Description: 5 l. [typescript].</td>
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Physical Description: 21 l.

Matsunashi, Junzaburo. *Researches on bed-load transportation under the tractive force near the critical limit*, offprint from *Memoirs of the Faculty of Engineering*, Kobe University, No.4, March 1957. pp. 24-42.


Physical Description: 177 p.

Scope and Content Note
(Dipartimento Federale Dei Transporti, Delle Comunicazioni e Delle Energie. Comunnicazione dell'Ufficio Federale dell'Economia delle Acque No. 43). [Published in Italian].


Physical Description: 4 l.


Larras, Jean. *Bottom relief of linear uniform flows on granule beds*. [n.p., n.d.]

Physical Description: 3 l. [typescript].


Physical Description: 36 l. [typescript].


Physical Description: 64 p.

Scope and Content Note
[Published in Japanese].


Physical Description: 8 p.
Othertype C-152  

Physical Description: 67 p.
Scope and Content Note (Mitteilungen no. 69).

Othertype C-153  

Physical Description: [12] l.

Othertype C-154  
Johnson, Joe W. *Transportation of sediment by streams: bed load*. Reporter’s discussion of Topic 8(a) for the round-table discussion on The Role of Hydraulic Laboratories in Geophysical Research at the National Bureau of Standards, Sept. 13, 1939.

Physical Description: 9 p.

Othertype C-161  

Physical Description: 8 p.
Scope and Content Note (Contributions from Hydraulic Laboratory, Technical University of Denmark, Bulletin no.12).

Othertype C-163  

Physical Description: 17 l.

Othertype C-164  
Gradowczyk, Mario H. *A theory of the erosion process*. Buenos Aires, Universidad de Buenos Aires, Instituto de Calculo, Departamento de Meteorologia, [n.d.]

Physical Description: 52 l.

Othertype C-165  

Physical Description: 83+ l.

Othertype C-167  

Othertype C-172  

Physical Description: 11 p.

Othertype C-173  

Physical Description: 4 p.

Frijlink, H.-C. Discussion des formules de debit solide de Kalinske, d'Einstein et de Meyer-Peter et Muller (Zürich), compte tenu des mesures recentes de gransport dans les rivieres neerlandaises, *Deuxiemes Journees de l'Hydraulique*. pp.98-103.


Physical Description: 62 p.


Physical Description: 121 p.
Scope and Content Note
(Mitteilungen, Nr.37).


Physical Description: 7 p.
Scope and Content Note
(Istituto di Idraulica dell'Universita di Padova, Centro Veneto di Ricerche Idrauliche del C.N.R. Studi e ricerche n.236).


Physical Description: 34 p.

BED LOAD


- Physical Description: 24 p.
- Scope and Content Note
  - (Paper 4-6).


- Physical Description: 7 p.

SUSPENDED LOAD


- Physical Description: 65 p.
- Scope and Content Note
  - (Institut für Wasserbau der Technischen Hochschule zu Berlin, Mitteilung no.10).


- Physical Description: 19 l.


- Physical Description: 8 l.


- Physical Description: 23+ l.
- Scope and Content Note
  - (Teilabdruck aus der mitteilung no.31 des Eidgenössischen Amtes für Wasserwirtschaft).


- Physical Description: 12 l. [typescript].

Inventory of the Hans A. Einstein Sediment Transport Collection, 1930-1970
SUSPENDED LOAD

Inventory of the Hans A. Einstein
Sediment Transport Collection,
1930-1970

Othertype D-15

Othertype D-16
Straub, L.G. Observations and analysis of the suspended load of rivers, First Meeting, International Association for Hydraulic Structures Research, Berlin, Oct. 4-7, 1937.

Physical Description: 12 l.
Scope and Content Note
(Summary of report no.12).

Othertype D-17

Othertype D-18

Othertype D-19

Physical Description: 10 l.

Othertype D-24
Chan-Mou, Tchen. Mean value and correlation problems connected with the motion of small particles suspended in a turbulent fluid. The Hague, Martinus Nijhoff, 1947.

Physical Description: 125 p.
Scope and Content Note
(Mededeling no.51 uit het Laboratorium voor Aero-en Hydrodynamica der Technische Hogeschool te Delft).

Othertype D-25

Physical Description: 6 p.

Othertype D-26
Craya, A. Schemas de suspension en regime variable. Presented at the Third meeting, International Association for Hydraulic Structures Research, Grenoble, Sept. 5-7, 1949.

Physical Description: 19 p.

Othertype D-27

Physical Description: 15 p.

Othertype D-42

Othertype D-46

Othertype D-47

Othertype D-51
Othertype D-52


Physical Description: 16 l.

Othertype D-61

Shapiro, M.A. *A limnological study of the Upper Ohio River; final report covering hydromechanics and radiation phases of the study.* Pittsburgh, University of Pittsburgh, Department of Public Health Practice, 1962.

Physical Description: 27+ l.

Scope and Content Note

(Report no.AT (30-1) - 2411).

Othertype D-62


Physical Description: 31 p.

Othertype D-63


Physical Description: 10 p.

Othertype D-67


Physical Description: 16 l.

Othertype D-68


Othertype D-69


Physical Description: 10 p.

Othertype D-72


Othertype D-73


Othertype D-74


Othertype D-75


Othertype D-77


Physical Description: 3 p.

Othertype D-78


Physical Description: 20 l.

Othertype D-80


- Physical Description: 45 p.
- Scope and Content Note
  (The Center's Report no.3).


- Physical Description: 71 l.

Drew, Donald A. *Turbulent sediment transport over a flat bottom using momentum balance*. [n.p., n.d.]

- Physical Description: [19] p.

**INDIAN THEORY**

**Box 3,**


- Physical Description: 11 p. [typescript].
- Scope and Content Note
  (Paper no.95).

Othertype E-4 Johnson, Joe W. *Discussion of A theory of silt transportation, by W.M. Griffith*. [n.p., 1939?].

- Physical Description: 10+ l. [typescript].


Othertype E-7 Inglis, Claude. *Historical note on empirical equations, developed by engineers in India for flow of water and sand in alluvial channels*. Presented for Second Meeting, International Association for Hydraulics Structures Research, Stockholm, June 7-9, 1948.

- Physical Description: 14 p.
- Scope and Content Note
  (Appendix 5).


- Physical Description: 10 p.

Othertype E-9 Blench, T. *Turbulent flow theory from the viewpoint of an irrigation engineer from India*. [n.p., 1946].

- Physical Description: 23 l. [typescript].

**Box 4,**


- Physical Description: 1 v. (unpaged).
Indiann Theory

Inventory of the Hans A. Einstein
Sediment Transport Collection,
1930-1970

Othertype E-19

Physical Description: 9 l.

Othertype E-20

Othertype E-21
Ahmad, Mushtaq, and Abdur Rehman. *Design of alluvial channels as influenced by sediment charge*. Lahore, Irrigation Research Institute [West Pakistan], 1962.

Physical Description: 19+ l.

Stable Channels

Box 4,

Othertype F-5
U.S. Army Corps of Engineers. Linton Hydraulic Laboratory. *Hydraulic data pertaining to the design of rock revetment*. Portland, Ore., The Laboratory, [1938].

Physical Description: 25+ l. [typescript].

Othertype F-6

Physical Description: 12 l. [typescript].

Othertype F-8

Physical Description: 1 v. (various pagings).
Scope and Content Note
(Regional Bulletin no.78, Engineering series no.6, Forestry series no.14).

Othertype F-9

Physical Description: 193 p.
Scope and Content Note
(Mitteilungen aus der Versuchsanstalt für Wasserbau and der Eidg. Techn. Hochschule in Zürich, Nr.4).

Othertype F-10

Othertype F-11

Othertype F-13

Physical Description: 16 l.
Scope and Content Note
(Hydraulic Laboratory Report no.293).

Othertype F-14

Physical Description: [fold.map in bind.].

Othertype F-15

Physical Description: 2+ l.

Physical Description: 143 p.

Othertype F-20  [U.S. Army Corps of Engineers. Linton Hydraulic Laboratory.] Hydraulic data pertaining to the design of rock revetment. [Portland, Ore., The Laboratory, 1938].

Physical Description: 25+ l. [typescript].


Physical Description: 41+ l.

Othertype F-26  Ghetti, Augusto. Sulla forma dei profili trasversali di equilibrio degli alvei mobili, estratto dal Giornale Del Genio Civile, Fascicolo 6, 1952.

Physical Description: 15 p.


Othertype F-35  Miller, John P. High mountain streams: effects of geology on channel characteristics and bed material. Socorro, New Mexico Institute of Mining and Technology, 1958.

Physical Description: 51 p.
Scope and Content Note (Memoir 4).


Physical Description: 116 p.
Scope and Content Note (Civil engineering and building construction series no.1).


Physical Description: 49 p.

Othertype F-41  Iwagaki, Yuichi, and Yoshito Tsuchiya. An analysis of the stable cross section of a stream channel. Kyoto, Japan, Kyoto University, Disaster Prevention Research Institute, 1959.

Physical Description: 25 p.
Scope and Content Note (Bulletin no.29).


Othertype F-46  Bebout, G.B. Stream stabilization based on combined application of theory of tractive force and natural laws governing movement of silt; office memorandum. [n.p., n.d.].

Physical Description: 28 p. [typescript].

Physical Description: 11 l.

Othertype F-55  Ashida, Kazuo. *On river bed variations and stable channels in alluvial streams.* Kyoto, Japan, Kyoto University, [n.d.].

Physical Description: 35 l.

Othertype F-60  Mao, S.P. *Silt transportation and deposition with stable river channels.* National Taiwan University, Taipei Hydraulic Laboratory, 1967.

Physical Description: 25 p.

Scope and Content Note

(technical report no.23).

Othertype F-61  Ahmad, Mushtaq, and Abdul Rehman. *Some methods of computing retrogression in channels due to change in sediment charge.* [Lahore, Irrigation Research Institute, n.d.]

Physical Description: 19 p.


Physical Description: 19 l.


Physical Description: 32 p.

Scope and Content Note

(Conference preprint 332).

**HEAVY MINERAL**

Box 4,


Physical Description: 353 l. [typescript]


Physical Description: 1 p.

Physical Description: 5 p.


Physical Description: 21 p.

Scope and Content Note
(XXth International Navigation Congress, Section II, Subject 5).


Physical Description: 106 l.


Physical Description: 38 l.


Physical Description: 20 p.

Scope and Content Note
(Memoire no.143).


Physical Description: 10 p.


Physical Description: 5 p.


Physical Description: 19 p.

Scope and Content Note
(ARS 41-88).

Physical Description: 2 p.

Physical Description: 1 p.


Physical Description: 8 l.
Scope and Content Note
(Report no.AEET/IDR/27).

Physical Description: 30 p.
Scope and Content Note
(United Kingdom Atomic Energy Authority, Research Group Report).

Physical Description: 6 p.
Scope and Content Note
(United Kingdom Atomic Energy Authority Research Group Report).

Physical Description: 96 p.
Scope and Content Note

Physical Description: 51 l.


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<td>Studi sulla portata solida del Po e sulle variazioni fisiche del suo alveo, reprint from <em>Bulletin no.15 du Conseil international de recherches</em>, Union geodesique et Geophysique internationale, Section d'hydrologie scientifique, Venice 1930.</td>
<td>24 l.</td>
<td>Translated by Paul Nemenyi as Studies on the solid materials transported by the Po and of the physical changes of its bed.</td>
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<td>Ehrenberger, R.</td>
<td>Direct detritus measurements in the Danube and their results until now, reprint from <em>Die Wasserwirtschaft</em>, No.34, 1931.</td>
<td>27 l. [typescript]</td>
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(Mitteilung no.33 des Amtes für Wasserwirtschaft.)


Physical Description: 20 l.


Physical Description: 190 l.


Physical Description: 46 l.


Physical Description: 25 l.


Physical Description: 1 v.


Physical Description: 9 l.


Physical Description: 11 p.


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Osborn, Herbert B. *Discharge measurements in sand-bed streams*. [n.p., 1959].


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<td>H-116</td>
<td>[Kuiper, E., and H.G. Riesen]. Saskatchewan River reclamation project; notes on river morphology. Winnipeg, Manitoba, Canada Department of Agriculture, Prairie Farm Rehabilitation Administration, 1955.</td>
<td>Physical Description: 79 l.                                                                                     Scope and Content Note (Interim report no. 9).</td>
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<td>H-124</td>
<td>U.S. Army Corps of Engineers. Waterways Experiment Station. Choctaw Bar Reach (Mile 555.8-567.0 AHP); analysis of channels and probable effects of proposed dikes. Vicksburg, Miss., 1967.</td>
<td>Physical Description: 8+ p.                                                                                     Scope and Content Note (Special study report 3-1).</td>
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<td>H-125</td>
<td>U.S. Army Corps of Engineers. Waterways Experiment Station. Upper Greenville Reach (Mile 541.5-550.5 AHP); hydraulic analysis of channels and evaluation of dike systems. Vicksburg, Miss., 1968.</td>
<td>Physical Description: 24+ p.                                                                                     Scope and Content Note (Evaluation of dike systems report 1-2).</td>
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RIVER MEASUREMENTS

   Physical Description: 8 l.

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   (M.R.D. Sediment series no. 13B).


   Physical Description: 248 p.

TRANSPORT IN PIPES

   Physical Description: 65 p.

   Physical Description: 11 p.


   Physical Description: 30 p.
   Scope and Content Note
   (Iowa Highway Research Board, Bulletin no.5).

   Physical Description: 51 p.

Othertype I-14  Engez, Necati. Influence of sediment content on the pipe friction, in Mitteilung Nr.50, Institut für Wasserbau und Wasserwirtschaft, Technische Universität Berlin, 1959. pp.11-26. [In German].

   Physical Description: 46 l.

Othertype I-18  Hersam, Ernest A. The flow of sands through orifices, reprint from Journal of the Franklin Institute, April 1914. pp.419-444.
  Physical Description: 33 p.
  Scope and Content Note
  (C.E. Research report no.21).


  Physical Description: 32 p.
  Scope and Content Note
  (C.E. Research report no.33).

  Physical Description: 16+ l.


  Physical Description: 19 p.
  Scope and Content Note
  (Technical report Ill-4-P).

  Physical Description: 47 p.


  WASH LOAD


Othertype J-7  Smith, Dwight D. *The universal erosion equation -- its nature and status.* [n.p., 1959]

  Physical Description: 6 l.


  Physical Description: 12+ l.


**BEACH TRANSPORT**

Box 6,  


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| Physical Description: 10 l. |
| Scope and Content Note [In French]. |
| Physical Description: 6 p. |
| Scope and Content Note (Publication no.63). [In French]. |
| Physical Description: 12 p. |
| Scope and Content Note (Memoria no.145). |
| Physical Description: 1 p. |
| Physical Description: 8 p. |
| Physical Description: 15 l. |


Physical Description: 120 p.
Scope and Content Note
(Memoirs of the Faculty of Agriculture, Kochi University, No.9).


Physical Description: 120 p.
Scope and Content Note
(Memoirs of the Faculty of Agriculture, Kochi University, No.9).


Physical Description: 8 p.
Scope and Content Note
(Memoria no.393).

**DENSITY CURRENT**


Physical Description: 34 p.


Physical Description: 22 p.


Physical Description: 65 p.
Scope and Content Note
(The Department's Technical report no.6).


Physical Description: 186 p.
Scope and Content Note
[In French].


Physical Description: 3 p.

Physical Description: 18 l.]


Physical Description: 21+ p.

Scope and Content Note
(NBS Report 5168).


Physical Description: 35+ l.

Scope and Content Note
(NBS Report 6638).


Physical Description: 25+ p.

Scope and Content Note
(NBS Report 4415).


Physical Description: 10 p.

Scope and Content Note
[In German].


Physical Description: 1 p.


Physical Description: 29 p.

Middleton, G.V. *Proposed research on turbidity (density) currents*. [n.p., n.d.]

Physical Description: 5 p. [typescript].


Physical Description: 10 p.
  Physical Description: 3 p.
  Scope and Content Note
  (W.M. Keck Laboratory of Hydraulics and Water Resources, KH-P-21).

  Physical Description: 19 l.
  Scope and Content Note
  (Report no.85-28).

  Physical Description: 8 p.

  Physical Description: 139 p.
  Scope and Content Note
  (Technical report no.2).

  Physical Description: 8 l.
  Scope and Content Note
  (Paper no.8).


  Physical Description: 7 l.

RESERVOIRS

  Physical Description: 3+ l. [typescript].

Othertype M-5  [Reservoir silting survey. n.p., 1938.
  Physical Description: 6 l.]


Physical Description: 36 p.
Scope and Content Note
(SCSSS-37).


Physical Description: 5 p.
Scope and Content Note
(Special report no.1).


Physical Description: 15+ l.
Scope and Content Note
(Special report no.2).


Physical Description: 21 p.
Scope and Content Note
(Special report no.5).


Physical Description: 14 l.
Scope and Content Note
(Special report no.7).


Physical Description: 11 p.
Scope and Content Note
(Special report no.9).


Physical Description: 54 p.
Scope and Content Note
(SCS-TP-74).


Physical Description: 41 p.
Scope and Content Note
(Sedimentation section report).
RESERVOIRS

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Scope and Content Note
(Report of investigation no.7).

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Physical Description: 55 l.
Scope and Content Note
(SCS-TP-100).

Othertype M-51


Physical Description: 19 l.

Othertype M-54


Physical Description: 58 p.
Scope and Content Note
(Sedimentation section report).

Othertype M-56


Physical Description: 22 p.
Scope and Content Note
(SCS-TP-119).

Othertype M-57


Othertype M-59


Physical Description: 15+ p.

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Physical Description: 6 l.

Othertype M-61


Physical Description: [18] p.

Othertype M-62


Physical Description: 8+ l. [typescript].
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                         Scope and Content Note  
                         (Report of investigation no.10). |
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| Othertype M-68 | Duquennois, H. *Lutte contre la sedimentation des barrages reservoirs*.  
                         Physical Description: 1 folder.  
                         Scope and Content Note  
                         (Compte rendu no.2). |
                         Physical Description: 65 p.  
                         Scope and Content Note  
                         (Sedimentation section report). |
                         Physical Description: 42 p.  
                         Scope and Content Note  
                         (Sedimentation section report). |
                         Physical Description: 43 p.  
                         Scope and Content Note  
                         (Sedimentation section report). |
                         Physical Description: 41 p.  
                         Scope and Content Note  
                         (Sedimentation section report). |
                         Physical Description: 35 p.  
                         Scope and Content Note  
                         (Sedimentation section report). |
                         Physical Description: 4 p. |
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Othertype M-83

Othertype M-84

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Othertype M-88

Physical Description: 6+ p.

Othertype M-89

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Othertype M-90

Othertype M-91

Physical Description: 11+ p.

Othertype M-92

Othertype M-93

Physical Description: 30+ p.

Othertype M-95

Physical Description: 44 l.

Othertype M-96

Physical Description: 60 l.

Othertype M-97

Othertype M-99

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<td>Toledo Bend Project</td>
<td>Morgan, R.D.</td>
<td>Presented for the ASCE Hydraulics Division Conference, Vicksburg, Miss., Aug.20, 1964.</td>
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<td>M-131</td>
<td>Depositional sequences and sand distribution in a deltaic complex,</td>
<td>Oomkens, E.</td>
<td>Presented for the 7th International Sedimentological Congress. [n.p., n.d.]</td>
<td>32 p.</td>
<td>(Special subject no.10)</td>
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<td>Reservoir problems with respect to sedimentation.</td>
<td>Maddock, Thomas, Jr.</td>
<td>[n.p., n.d.]</td>
<td>pp.9-17</td>
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<td>Note sur l'étude des coupures des boucles de l'Isère en amont de Grenoble</td>
<td>Jonte, M.</td>
<td>La Houillère Blanche,</td>
<td>Numero Special A, 1949</td>
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<td>On the influences of sand ripples upon the sediment transport in open channels.</td>
<td>Tsubaki, Toichiro, Tsuruo Kawasumi and Takeshi Yasutomi.</td>
<td>Reports of Research Institute for Applied Mechanics, Kyushu University, Vol.II, No.8, 1953.</td>
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<td>pp.241-256</td>
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<td>N-12</td>
<td>Meanders and their bearing on river training.</td>
<td>Inglis, Claude Cavendish.</td>
<td>Prepared for Meeting, Institution of Civil Engineers, Maritime and Waterways Engineering Division, Jan.28, 1947, Session 1946-47.</td>
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Othertype N-40  Dawdy, David R. Discontinuous depth-discharge relations for sand-channel streams and their effect on sediment transport. [n.p., n.d.]
  Physical Description: 13 l.

Othertype N-42  Matsunashi, Junzaburo. Researches concerning the generation of sand-ripples in the closed channel flow with movable bed, reprint from Memoirs of the Faculty of Engineering, Kobe University, No.9, March 1962. pp.63-83.


  Physical Description: 18 l.
  Scope and Content Note
  (Symbol no.1874).


  Physical Description: 23 l. [typescript].
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  (Fluid mechanics note 3).


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| **Reth, T., C. Dunham, and W. Graf.** New investigations into the meandering of rivers, reprint from *Cornell Engineer*, May 1965.  
Physical Description: 7 p.  
Scope and Content Note  
(University of Padova, Instituto di Idraulica e Costruzioni Idrauliche, Studi e recerche no.207). | **Denmark. Technical University. Coastal Engineering Laboratory.** *Basic research - progress report 8*. Prepared in cooperation with the Hydraulic Laboratory. Copenhagen, 1964.  
Physical Description: 22 p.  
Scope and Content Note  
Physical Description: 35 p.  
Scope and Content Note  
 CHANNEL IRREGULARITIES

| Physical Description: 13 p. |
| Scope and Content Note |
| (Memoria no.307). |
| Physical Description: 144 p. |
| Scope and Content Note |
| (Heft 24). [In German]. |
| Physical Description: 10 l. |
| Scope and Content Note |
| (Internal report LIT/69/1). |
| Physical Description: 18 p. |
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| (Report no.6). |

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| Othertype O-4 | Lane, E.W. Notes on the formation of sand, Transactions, American Geophysical Union, 1938. pp.505-508. |</p>
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<td>[U.S. Soil Conservation Service. Fall velocity graph for quartz spheres in air and in water. n.p., n.d.] Physical Description: 1 fold.plate.</td>
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<td>Jenike, Andrew W. <em>Flow of bulk solids</em>. Salt Lake City, Utah, 1954. Physical Description: 5 l. Scope and Content Note (Progress report no.1).</td>
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Physical Description: 8 p.
Scope and Content Note
(Translation 60).

Othertype O-44


Physical Description: 5 p.
Scope and Content Note
(Studi e ricerche no.193).

Othertype O-50


Physical Description: 8 p.

Othertype O-55


Physical Description: 3 p.

Othertype O-56


Physical Description: 1 v.
Scope and Content Note
(various pagings) (Porton Technical paper no.797).

Othertype O-58


Physical Description: 4 l.
Scope and Content Note
(Technical letter Sed-17).

Othertype O-61


Physical Description: 16 p.
Scope and Content Note
(Technical bulletin 68).

Othertype O-62


Physical Description: 4 l.
Scope and Content Note
/Publication no.147.

MECHANICAL ANALYSIS
Box 8,


   Physical Description: 55 p.
   (Catalogue 53).


   Physical Description: 10 p.
   (Reprint, ASTM Designation: D 422-39).


    Physical Description: 4 l.
    (Technical letter Sed-17).


    Physical Description: 14 l.
    (Submarine geology report no.15).


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Physical Description: 25 p.
Scope and Content Note
(U.S. Agricultural Research Service, Conservation research report no. 4).


Physical Description: 1 v. (various pagings).


Physical Description: 14+ p. (typescript).


Physical Description: 1 v. (unpaged).


Physical Description: 1 v. (unpaged).


Physical Description: 5+ l. (typescript).


Physical Description: 4 l.


Physical Description: 34+ l.
Scope and Content Note
(SCS-TP-33).

Physical Description: 22 p.


Physical Description: 12 p.

Scope and Content Note

[In French].


Physical Description: 10 p.


Physical Description: 8 p.


Physical Description: 16 p.

Scope and Content Note

(SCS-TP-124).


Physical Description: 4+ p.


Physical Description: 3 l.


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Physical Description: 6 l.
McHenry, J. R. Exences with the Beach Erosion Board sediment densitometer. [n.p., 1959].

Physical Description: 4 l.


Physical Description: 89 p.


Power equipment for depth-integration sediment sampling. [n.p., n.d.]

Physical Description: 3 l.

Mero, John L. A method of determining the direction of net sand drift along Northern California beaches using natural thorium as a radioactive tracer. Submitted for coursework in Geological Engineering 299, Department of Mineral Technology, University of California, Riverside, 1959.

Physical Description: 21 l.


Physical Description: 4 p.

Murphy, T.D. Innovations in the sediment density gamma probe. Prepared for the ASCE Hydraulics Division Meeting, Aug.18-21, 1964, Vicksburg, Miss.

Physical Description: 25 p.


Physical Description: 34 p.


Physical Description: 7 l.


Physical Description: 44 p.

Scope and Content Note
(Memoria no.308).

**Othertype R-64**

- Physical Description: 15 p.
- Scope and Content Note
  - (PREC 30-1).

**Othertype R-65**

- Physical Description: 19 p.
- Scope and Content Note
  - (PREC 30-2).

**Othertype R-66**

- Physical Description: 9 l.

**Othertype R-67**

- Physical Description: 27 l.

**SEGRAGATION**

**Box 8,**

**Othertype S-3**

- Physical Description: 31 l.
- Scope and Content Note
  - (Submarine geology report).

**Othertype S-8**

**Othertype S-9**

**Othertype S-11**

**Othertype S-12**

**Othertype S-13**

**Othertype S-18**

- Physical Description: 89 p.
- Scope and Content Note
  - (Translation T-5).

Physical Description: 139+ l. [typescript].


Physical Description: 69 p.

Scope and Content Note

(Mitteilungen der Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie, No.3).

### SEDIMENT STRUCTURES


Physical Description: 34 p.

Scope and Content Note

(Forschungsarbeiten auf dem Debiete des Ingenieurwesens, Heft 283).

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