


5-1931

## Text Books in Physics

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### Recommended Citation

(1931) "Text Books in Physics," *Science Bulletin*: Vol. 3: No. 9, Article 8.  
Available at: [https://scholarworks.uni.edu/science\\_bulletin/vol3/iss9/8](https://scholarworks.uni.edu/science_bulletin/vol3/iss9/8)

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# SCIENCE BULLETIN

Editor-in-Chief: W. H. Kadesch. Advisory Board: Dr. L. Begeman, Head, Department of Physical Science; Dr. E. J. Cable, Head Department of Natural Science.

Issued Monthly. Entered as second class mail matter at the post-office, Cedar Falls, Iowa, under the act of August 24, 1912.

Five cents per copy, 35c per year, outside of Iowa.

The current number of the Bulletin completes the series for Volume 3. We trust that our readers have found something of value in each issue, and hope that they have viewed with charity whatever shortcomings we have shown. We wish them all a pleasant and profitable summer.

## Teachers Courses In The Sciences

This College offers courses in the teaching of the sciences, for high school science teachers, as follows:

1. The Teaching of the Biological Sciences, 3 hours.  
Open to Juniors and Seniors who have 15 hours of credit in Biological Science.
2. Teachers' Course in Physics, 5 hours.  
Open to Juniors and Seniors who have 10 hours of College Physics, or who have positions as teachers of Physics.
3. The Teaching of Chemistry, 5 hours.  
Open to Juniors and Seniors.

All of these are on the schedule of courses to be offered during the forthcoming summer term.

## BUTTERFLIES TASTE WITH THEIR LEGS

Miss Almeda Anderson, of the University of Minnesota, has discovered that Monarch butterflies taste with their legs. In testing their responses to clear water

and to solutions of milk sugar and cane sugar she found that they were attracted only by the last, but that to this they were very sensitive. They were able to detect sugar in a solution only one-sixteen-hundredth part as strong as the weakest sugar solution a human being can taste.

## TEXT BOOKS IN PHYSICS

In the November number of the Science Bulletin a list of text books on General Science was given, with a brief statement concerning each. Below is given a list of high school texts on Physics. Additional information concerning these may be obtained from the publishers.

1. Dull—Modern Physics.  
29 chapters, 778 pages, 780 figures.  
Accompanied by Answer Book and Manual, 85 pages; and by Laboratory Exercises, 217 pages, 77 experiments.  
Henry Holt and Co., Chicago.
2. Black and Davis—New Practical Physics.  
31 chapters, 645 pages, 605 figures.  
Accompanied by Work and Test Book, by Hurd, 148 pages, 19 units.  
The Macmillan Co., Chicago.
3. Fuller, Brownlee, and Baker—Elementary Principles of Physics.  
37 chapters, 859 pages, 728 figures.  
Accompanied by Laboratory Exercises, 321 pages, 93 experiments.  
Allyn and Bacon, Chicago.
4. Millikan, Gale, and Pyle—Elements of Physics.  
21 chapters, 509 pages, 493 figures.  
Accompanied by Exercises in Laboratory Physics, by Millikan, Gale, and Davis, 133 pages, 63 experiments.  
Ginn and Co., Chicago.
5. Lake and Unsel—A Brief Course in Physics.  
8 chapters, 35 sections, 468 pages, 318 figures.

Laboratory Manual to accompany not yet published.

D. C. Heath and Co., Chicago.

6. Hoadley—Essentials of Physics. 544 pages, illustrated. Accompanied by Physical Laboratory Handbook, 107 pages, 62 experiments; and by Teacher's Manual. American Book Co., Chicago.
7. Tower, Smith, Turton, and Cope—Physics. 492 pages, 77 sections, illustrated. P. Blakiston's Son and Co., Philadelphia.
8. Duff and Weed — Elements of Physics. 55 chapters, 574 pages, 466 figures. Longmans, Green and Co., Chicago.
9. Of Use in the Physics Course. Hodgman and Lange—Handbook of Chemistry and Physics, Fifteenth Edition. 1426 pages. Mathematical Tables, General Chemical Tables, Properties of Matter, Heat, Hygrometric and Barometric Tables, Sound, Electricity and Magnetism, Light, Miscellaneous Tables, Definitions, Formulae, Measures and Units, Wire Tables, and Problems. Chemical Rubber Publishing Co., Cleveland.

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### QUESTION BOX

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#### Question:

What products are made from corn stalks and cobs?

#### Answer:

This question can not be answered completely, since investigators are continually adding to the list. However, the following are the most important products up to August, 1928.

#### From stalks:

1. Paper
2. Insulating boards
3. Rayon
4. Lumber substitutes
5. Vulcanized fiber or cellulith

#### From cobs:

1. Charcoal

2. Acetic Acid
3. Formic Acid
4. Methanol
5. Tar
6. Illuminating gas
7. Acetone

A study of the uses of the above products would be very interesting, for they are almost without number.

If one desires a more complete answer it may be found in Bulletin 99 of the Engineering Extension Department, Iowa State College, Ames, Iowa. This bulletin is free.

Winfield Scott.

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### FROM TEACHERS IN THE FIELD

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#### Science in Seventh and Eighth Grades

Much value is obtained from clippings and pictures brought by the pupils and explained by them to the other members of the class. The article is discussed and then put on the bulletin board for two weeks where all may read it. Five or ten minutes of each class period are given over to "News", whether it be of the type above mentioned, or some personal experience, discovery or question along the line of the unit being studied. One objection can be given: Sometimes the discussion is apt to wax warm or to continue too long.

Booklets made of scientific clippings, and posted, are also of interest and value.

Two methods of review have been used. The first is by means of study guides. Mimeographed sheets of questions, with from one to five questions on each topic have been made. Topic numbers accompany the questions so that pupils can more easily find what they are seeking. Work is done by two or three persons in a group, although each has before him a set of the questions. Texts, notebooks, each other's and, if necessary, the teacher's information are used to clear up any point or to fix