vomiting and remained unmolested during the rest of the journey. This fact appeared remarkable to me. The benefit had been immediate." If this observation can be confirmed by other similar cases, it would be very fortunate, for then the surgeons of the maritime and transatlantic companies would be able to relieve passengers who suffer seasickness.

THE SEPARATION OF WOOL AND SILK IN WOVEN Goods.-A. Rémont.-The following method is sufficiently exact for commercial purposes: the sample is kept for a quarter of an hour in boiling water containing 5 per cent. of hydrochloric acid, and is then washed and dried. The threads of the warp are then separated, if possible, from those of the weft, and examined separately as follows: a thread is burnt. There is given off a smell like burning horn, and a thread heated with a fragment of caustic soda evolves ammonia. In this case some threads are plunged in basic zinc chloride at a boil. If they dissolve completely the threads are *silk*. If on adding hydrochloric acid there is a plentiful flocculent precipitation, the threads are silk mixed with wool or with vegetal fibres. If nothing dissolves in zinc chloride, the threads are plunged in a boiling solution of soda, not too concentrated. If they dissolve completely, wool. If partially, wool and cotton. If no odor of burnt horn is given off, the threads consist entirely of vegetal fibres. These results may be confirmed by means of the microscope. For the quantative examination, if the preliminary tests show silk, wool, and cotton, four swatches weighing each 4 grms. are cut; one is laid aside and the three others are boiled .- Journal de Pharmacie et de Chimie.

THE REDUCTION OF COPPER SOLUTION BY GLUCOSE* appears first to have been utilized by Trömmer. Frommherz suggested the employment of a citrate to keep the cupric oxide in solution. Modifications of the ordinary alkaline tartrate solution have been devised by Barreswil, Poggiale, Rosenthal, Chevalier, Boussingault, Reveil, Fehling Strohl, Viollette, Magneshahens, Lowenthal, Joulie, Pos soz, etc. Loewe employed glycerin instead of a tartrate. Various treatments of the precipitated cuprous oxide have been proposed by the following chemists: Mohr dissolves the oxide in hydrochloric acid, and titrates with permanganate. Brunner dissolves in an acid solution of ferric chloride, and estimates the reduced iron by bichromate or permanganate. Champion and Pellet dissolve the precipitate in hydrochloric acid and chlorate of potassium, boil off free chlorine, and titrate the liquid with stannous chloride. Girard and Soxhlet reduce the cuprous oxide in hydrogen, and weigh the metallic copper. Muter dries the cuprous oxide at 100° C., and weighs it as Cu₂O. O'Sullivan and other operators ignite the precipitate strongly, and weigh as CuO. Ferdinand-Jean dissolves the cuprous oxide in hydrochloric acid, and weighs the metallic silver precipitated on adding ammoniacal silver nitrate. Maumens uses an excess of copper solution, filters, adds ammonia to the filtrate, and estimates the residual copper by titration with sodium sulphide, for which Perrot substitutes potassium cyanide. Lastly, Pavy adds ammonia to the alkaline cupric solution, and runs in the sugar solution till the hot liquid is decolorized.

METEOROLOGICAL REPORT FOR NEW YORK CITY FOR THE WEEK ENDING DEC. 17, 1881. Latitude o° 45′ 58″ N.; Longitude 73° 57′ 58″ W.; height of instruments above the ground, 53 feet; above the sea. 97 feet; by self-recording instruments.

BAROMETER.								THERMOMETERS.												
	MEAN FOR	MAXIN	MINIMUM.			ME		MAXIMUM.				MINIMUM.				MAXI'N				
DECEMBER.	Reduced to Freezing.	Reduced to Freezing.	Time.	Reduce to Freezin	Ti	ne.	Dr y Bulb,	Wet Bulb	Dr Bu	y lb.	Time	. Wet Bulb	Time.	Dry Bulb.	Time.	Wet Bulb.	Time.	In Sun		
Sunday, 11 Monday, 12 Tuesday, 13 Wednesday, 14 Thursday, 15 Friday, 16 Saturday, 17	30.427	30.476 30.110 29.938 30.322	12 p. m. o a. m. o a. m. o a. m. 12 p. m. 11 a. m. o a. m.	30.362 30.116 29.938 29.688 29.900 30.322 30.176	12 p 12 p 4 P 0 a	i. m. o. m. o. m. o. m. i. m.	27.0 38.0 51.3 56.3 30.3 24.0 33.7	25.7 36.0 47.6 52.7 29.6 23.0 31.3	20) I	4 p. 1 6 p. 1 12 p. 1 4 a. 1 0 p. 1 11 p. 1	m. 43 m. 54 m. 60 m. 40 m. 28	4 p. m. 6 p. m. 12 p. m. 4 p m. 0 a. m. 11 p. m. 4 p. m.	29 41 40 1 26 1	7 a. m. 6 a. m. 5 a. m. 2 p. m. 2 p. m. 7 a. m. 4 a. m.		7 a. m. 6 a. m. 5 a. m. 12 p. m. 12 p. m. 7 a. m. 4 a. m.			
Mean for the we Maximum for th Minimum Range	e week at 1	1 a. m., Dec 4 p. m., Dec	. 16th . 14th	30.	492 .688	hes.	Ma	an for ximun nimun Rang	n for t	he v	veek.a	at a pm	14th 16th	67.	rees at at	4 pm 14 7 am 16	th, 60. th, 18.	Vet. degrees		
WIND.							HYGROMETER.					CLOUDS.			RAIN AND *SNO					
DIRECTION. VELOCITY IN MILES. FOR FEET.					FORC	E OF V	RELATIVE HUMIDITY.				EAR, ERCAST.	O DEPTH OF RAIN 10 IN INCH			IES.					
DECEMBER.	7 a. m. 2 p	. m. o p. m.	Distanc for the Day.	e .;	Γıme,	7 a.m.	2 p. m.	9 p. m.	7 a.m.	2 p. m.	9 p. m.	7 a.m	2 p. m.	9 p. m.	Time of Begin- ning.	Time of End- ing.	Data- tion h. m	Amount of water		
	e. s. w. s. s. w. s.			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.30 pm .20 pm 50 pm 5.50 am 3.15 am 2.20 am	.149 .244 .3 ⁶ 7 .181 .098	.420 .137 .106	.136		78 66 67 68 79 75 63	91 70 100 100 88	o 9 cu. 10 8 cu. 10 o 1 cir.	4 cir. cu.	10 5 CU. 10	7 pm 9 am	10 pm 12 pm 8.30 am	3.00 15.00 8.30	.03 .40 .40		

*Thursday, 15th, 11/4.

Director Meteorological Observatory of the Department of Public Parks, New York.

^{*} From an Advance-Shee of Allen's "Commercial Organic Analysis," vol. ii.