Solutions Manual for Engineering Mechanics Statics And Dynamics 13th Edition by Hibbeler

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		I have inserted a note to remind that	Not an error although it's a
		$x \wedge could be greater than y B$	reasonable clarification. I'm not
		because the figure confused so they	sure how a single figure could
		oculd not to include character solute to	sure now a single figure could
10	Due1.1	the ferments	show both possibilities. Leave the
12	Problem 12.26	the formula	main text alone.
			Error confirmed. The problem
			wording in the ISM also needs to
			be changed to match the text, and
			the EOB answer needs to be
		There is no solution for velocity	updated. See the insert material
12	Problem 12.154	at t=0.25s in ISM.	which follows after this errata list.
			Error confirmed. Change "from"
		The typo is in the textbook. There is	to "for" in reprint.
12	Problem 12.200	'from' instead of 'for'.	
			Error confirmed. The problem
			wording and art in the ISM also
		The textbook and the ISM are using	needs to be changed to match the
		different values of force and we think	text, and the EOB answer needs to
		that ISM should be corrected to match	be undated. See the insert material
14	Problem 14 3	the textbook	which follows after this errata list
			Error confirmed Change "his" to
			"hits" in reprint
1.4	D 11 1410	TYPO in the textbook: "his the	into in reprint.
14	Problem 14.13	ground." should be "hits the ground."	
			Error confirmed. Last line should
		In the ISM incorrect answer: $v_D =$	end with 17.7 m/s, as in final ISM
14	Problem 14.33	17.7 m/s (not 7.7 m/s)	MS.
			Intent should be clearer. In reprint,
			change the last part to read
			"determine the maximum
			compression imparted to the
			spring by the initial impact. Take e
			= 0.8 between the box and the
			plate. Assume that the plate slides
		Given the initial data (and even data	smoothly and reaches full
		within rather wide range) the block	compression before any secondary
		can strike the plate again, even	impact with the box."
		several times. And it is too hard to	
		calculate wether it happens. So. I've	Do not change ISM or end-of-
		changed the data the next way: the	book answer. If the tutorial is
		box weighs less then the plate now	supposed to mirror the text, then
		So it changes the direction of its	make the above change in the
		velocity and there will no multiple	tutorial as well rather than making
15	Problem 15.82	collisions	the box weigh less than the plate
13	F1001e111 13.82	comsions.	me oox weigh less than the plate.

			There is an error, but it is not with
			the labeling G 1 and G 2 The
			intent of the figure is to show a
			shift in the girl's center of gravity
			between the first position and the
			middle one. So the black dot in the
			first position (on the right) should
			he higher up the rope let's say just
			above the girl's hand and there
			should be a black dot at the
			iunction of the three ropes in the
		The nicture in the textback is	middle position just the same as
		incorrect. There is two G. 2 points	the block det in the last position
15	Problem 15 108	The figure was changed with G. 0	(on the left)
15	F1001cm 15.108	True in the ISM, sugging is estimate	Emer confirmed Demession the first
		find force, however ISM month 2	effor confirmed. Remove the first
		mind force, nowever ISW mark 2	of the three Ans. labers.
4	Duahlam 155	there are display of matrix issue	Correct the matrix display to
4	Problem 4.55	there are display of matrix issue.	Materia initial ISIVI MIS.
			Not sure what they mean. If the
			the text is not actually 26 decreas
			(net to goals) that is not a his deal
5	D. 11 5 10	in a sum of a set of	(not to scale), that is not a big deal
3	Problem 5.18	incorrect angle on the picture	and doesn't require a correction.
			Not sure what this means. If the
			issue is that the angle snow in the
			text is not actually 18 degrees (not
5	Duahlam 5 11	incompationals on the nisture	to scale), that is not a big deal and
3	Problem 5.44	incorrect angle on the picture	Net serve select this was a pert Like
			Not sure what this means. But I do
			see some errors. In the ISM, in the
			solution section on joint D, change
			subscript <i>DB</i> to subscript <i>DE</i> ,
			twice. And in the last line of the $1 + \frac{1}{2} = 0.577 \text{ p}(\text{T})$
			solution, change $0.5 / P(1)$ to
		An error in ISM. The answer, which	0.289 P(1). Make corresponding
6	D 11 (02	is not requested in the problem was	changes to the end-of-book
6	Problem 6.23	tagged with "ans" note.	
			in the ISM, make the following
			changes: (1) add an additional
			term of - 1500 to the calculation $f = \frac{1}{2} \int \frac{1}{2} \frac{1}{2} \frac{1}{2} \int \frac{1}{2} $
		An error in the calculations in ISM	for F_CH , per the MS; (2) Delete
		was round: the value CH is calculated	the "Ans." tag after the value for $\Gamma_{\rm eff}$
		incorrectly. In addition, it is not	F_CH ; (3) Restore part of the MS
		required to estimate it according to	material that was hand-deleted by
	D 11 (00)	the task. It seems to be a misprint, and	author, beginning with "Method of
6	Problem 6.28	there should be CJ.	joints" and ending with the answer

			for F_CJ.
6	Problem 6.20	An error in ISM. The answer, which is not requested in the problem was	Delete the first "Ans." tag in the ISM solution.
6	Problem 6.34	An error in ISM. The answer, which is not requested in the problem was tagged with "ans" note: the force implemented to GJ is just an intermediate value.	Delete the first "Ans." tag in the ISM solution. (The end-of-book answer does not need to show F_GJ, but it does no harm and therefore no change is needed.)
6	Problem 6.67	Inconsistency between ISM and textbook. Question wording is different in ISM and Textbook.	Error confirmed. Change problem wording in ISM to match main text.
1R	Review Problem R1.2	There is an error in a_A for part B in ISM	In the ISM, in the first equation for part b), block A, change $20(0.3)$ to $50 - (20)(0.3)$.
1R	Review Problem R1.3	There is a typo in the textbook - x is missing in F: F ={10i+6yj+2zk}	I don't see any error. The x- component of the force is given as constant at 10, and that is how the solution treats it.
9	Problem 9.111	There is misprint in the ISM. Should be (5+h/5)	I am not sure what is being referred to. In the solution 9.111 that I am looking at, at the start A = theta z-bar r-wigglybar L should read A = theta SIGMA r-wigglybar L. However, the expression (10 + h/5) in the long middle equation is correct and should not change to 5 + h/5.
20	Problem 20.52	There is a wrong answer for a_B (I and j- components)	These problems are tricky, but on a quick review using a sketch and calculator, I see nothing amiss. Please state what values you think the components should have.
19	Problem 19.32	There is wrong solution in ISM.	Error confirmed. At one point there was confusion over what problem would appear as 19.32, and apparently we ended up duplicating the solution for 19.35 as the solution for 19.32. Need to trace back the pickup source for this problem and then pick up the correct solution. UPDATE: THE CORRECT SOLUTION AND ANSWER ARE PROVIDED BELOW.

			l see no error. We are not concerned with angular momentum about the
		wrong answer in ISM (I_A equals	fixed horizontal bar (although that,
		m*l^2/3)	too, is conserved) but rather with
		but when we use correct formula the	angular momentum about the
19	Problem 19.34	answer has no physical sence	gymnast's own center of mass.
			Art in problem should be changed
			to show units of the spring
		The solution and answer assume spring	constants as lb/ft rather than lb/in.
		constants in lb/ft but the art shows them	This carries over into the problem
14	Problem 14.22	in lb/in.	art as it appears in the ISM.

Exercise 12-154:

For the ISM:

(1) Just before the section called "Acceleration" add a section on velocity:

Velocity: When t = 0.25 s, the vertical component of velocity is $8 \sin(40^\circ) - 9.81(0.25) = 2.690$ m/s. Then

$$v = \sqrt{6.128^2 + 2.690^2} = 6.692 = 6.69 \text{ m/s}$$
 Ans.
 $\theta = \tan^{-1}(2.690/6.128) = 23.697^\circ = 23.7^\circ$ Ans.

(2) In the section on Acceleration, right after "...23.70° with the x axis" add a parenthetic note before the concluding period:

(which confirms the velocity angle found above).

For back-of-book answer 12-154:

Right below the equation that begins with "y =", add the following:



Exercise 14-3:

For the ISM:

SOLUTION

Equations of Motion: Since the crate slides, the friction force developed between the crate and its contact surface is $F_f = \mu_k N = 0.2N$. Applying Eq. 13–7, we have

$$+\uparrow \Sigma F_y = ma_y;$$
 $N + 1000 \left(\frac{3}{5}\right) - 800 \sin 30^\circ - 100(9.81) = 100(0)$
 $N = 1321 \,\mathrm{N}$

Principle of Work and Energy: The horizontal components of force 800 N and 1000 N which act in the direction of displacement do *positive* work, whereas the friction force $F_f = 0.2(1321) = 264.2$ N does *negative* work since it acts in the opposite direction to that of displacement. The normal reaction N, the vertical component of 800 N and 1000 N force and the weight of the crate do not displace, hence they do no work. Since the crate is originally at rest, $T_1 = 0$. Applying Eq. 14–7, we have the $T_1 + \sum U_{1-2} = T_2$

$$0 + 800 \cos 30^{\circ}(s) + 1000 \left(\frac{4}{5}\right) s - \frac{264.2s}{2} = \frac{1}{2} (100) (6^{2})$$
$$s = 3.54 \,\mathrm{m}$$

Ans.

For back-of-book answer 14-3: Change 1.35 m to 3.54 m.

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