黷먓ㄲ麔갩례댳뻺鰈갂鈁2009 맶렠鑼钧钎鑽鈁8305920003EE/20090503

(鰓뿅鑲鈿钇鉶8305920003EE)

鉀鰆뜀鈔딯 1 뮚鈷2009-03-23鈸

鉀鯧뻡鈔ㄲ鰈鶈됊鑾钝针鈿

鉀鯧뻡벱샥鈔댳뻺鰓뿅鈔**鉀뎯둫鉬뮱꾩鏂병鈔**믳뀣鈔**鉀鱸鵝鉬떶髕뇹鈔**돷鷄鉉1 뗀髻

鉀듕냢鱸鯧鉬닱鱕鈔렌긙钟钅 鑲鑱ㄲ鰈鰓鉉3 맶껨

鉀떹럻頀髮鈔

냙뫯 넶黻
딮꼱 넭밞
댊뼡 쀿단
렖賦 뜅鵠
딮렯 鬆눔
밠뢺 섐갛
볹鬅 ㄺ
섲뼡 뼾
떺똭 냨
똭귺 숉밞
밢긣댵 꿯鶇

鉀껽鹿삡뮽鉬頀髢봂뇐鈔

鈀魰齹鏻뀸鏮鐏鏸뿔ㄲ鼀鶈됊鏾륅뻶鑭鑶鑽钆鏾륅쀩鐓뿔鰩鏻鋏鐏鐧鏻鈞鐧鐧鏻鰈꿳鏶鐏륅쀩鏾딆鐔鏾釐맶닿鐉鏻鑭꿳鏺鏸鐧鏻뱃꿳鏮꼮鏻罄鐏鈞룸륅쀩鐓魰齹鑭鑶鑽钆鏻곱鰈꿳鏶鐏鐧鏻鑭鑢鐍鏺鏻鈞렌鷥鶈됊鏾뜸똬鏻鈞魰齹鉉쀘섓鐓鏺鐏鏻鐧鏻鐓鐥鏶鈞鐉鏸鈞뿔ㄲ鼀鏾齟넳鏻믳삎鏻鐓鏶鐏魰齹뚡鐏鈞

鉀껽鹿鰔뿜鈔

鈀魰齹鏻뀸鏮鐏鏸뿔ㄲ鼀鶈됊鏾륅뻶鑭鑶鑽钆鐓鑾钝针鈿黽껷鏻鰈꿳鏶鐏鈞鑭鑶鑽钆鐓쀄꿳鏵鏻鏻鏻넳鏻뻳딱鐓鰩鐏鐧鏻鏮뙥뇻鑭鐉鐏鈞罄鐎鏮鏵鐥뗃렽꼛鐓鼱鐥鏶鈞쀄갷鐉鏵鏻鐥鐧鏻鐓鑭鐉鐏鈞鐓鐉鐎鈞빋깅鵷鏾쀄꿳鐓돷뜺鏻鏶鐏鈞

鈀륪딕鈞댢鮂딕鑭鐓鏨鏻꼱뗊鑭鋈鐑鐎鏨鏵鏸齷鈞렌鰝鏾鵷鑭륺鐏鑷鈿钫钱섓鑭눑鐉鈞껨鑭鈞렌넳鐓륪륅鏵鏻鈞鏶鐏鐓렌鷥섓댍鑭鐍鐓鐓꾁뷨鐓鰈꿳鏶鐏鈞듸鏨鏻鈞렌넳똭鑭鋈鏮鐏鏸렇렌鰝鋈鐍鐓鑭렌鷥됗麙긙鏾뇽밸鏨鐓鵰솖鏶鐏鈞

鈀鐉鏸鈞鶄麔雹齹鷰뀠꼛鐍鐎鷰뀠魰齹鏾객숊鐓꼼鏵鐏鈷렌鷥鰈鰩鶉발객鵰鏺鈞

鉀頀鯧꿷鉬頀곥鉬궷聩꿷 럾鈔

Paul A. Tipler and Gene Mosca; Physics for Scientists and Engineers, Fifth Edition, (W. H. Fremann, New York, 2003), chap. 21.

http://www.whfreeman.com/college/book.asp?disc=&id_product=2001003137&compType=PREV

鉀껽鹿黝깽鉬귰뚣鱳鉬鵯鵔럾鏂鰽뿖鈔

鰈닿鐓鍪눔釽鍬눔鏾鑷钩鈿钕鏽鐑鏵鈞鑷钩鈿钕뗸髻鏻긟룹麑鬢鏾齠鵑꼃鏽鐀鏨鏻鈞꼮鏻鏵鏻섟객黽껷鏻鰈꿳鐓鏶鏶鐊鐓鈞

鐉鏸鈞鍪鍬鰩똭鍬鰩뜿렠鈞鵑麔雹齹鷰뀠꼛鐍鐎鷰뀠魰齹鏾객숊鐓꼼鏵鐏鈷렌鷥鰈鰩鶉발객鵰鏺鈞

鉀닏님믃鯤봂붦鈔

鈹덽鵝鈺륃곩鏾뫶밊鏾쀰긙鈷鐏鐏鐏鐎뽸꿳鏵鈞댘麙럱鏽뫶齪鏵鏸鏮鈸鏻밅鰎鏶鐏鈞

뀗댑鏶鐏鐧鏻鐥鏾鵝븣똭鏾鵝븣鏻罄鐎鈞鐧鐏鐓렇눻鏻鏵鏻밅鰎鏾렇눻鏻鏵鏻鐥鐏鐧鐏鐎鈞

鉀뷡锔鏂鱸꽁鉬頀髢뻡뮽鈔

鉞 (B) 鷰뀠럱鰨딱鰩鼎鏾鏸鐊鏾뱄ㅠ鏨ㄲ鰈鶈됊鏾똕껸鐓눕鏽鑁鐓鐏鈔

鉦 (E) 鑲钝鈑钉鑸鈿鑼钥钱먄섓鉶钕钪鑿钱鑭鈿鑼钥钱먄섓鐓눕鏽鑁鐓鐏鈔

鉀껽鹿黩鯷鈔钻꼿麔뻴鉶ㄲ鰈鶈됊鑾钝针鈿鈸

鰔뇹	껽鹿鏂껬듯	롷뽛	鑌鑠鈰鏮鉬꾲듯럾
1.3.5 鈲 7.9.10.12 鈲 15 鰩	댌렌껮鷥鰈	魰齹鏻뀸鏮鐏鏸댌렌껮鷥鰈鏾륅뻶鑭鑶鑽钆鐓鑾钝针鈿黽껷鏻鰈꿳鏶鐏鈞룸듸鈞댣飢듸鑭鑑鏨鏻꼱뗊鑭鋈鐑鐎鏨鏾鏸鐏鈞렌鰝鏾鵷鑭룹륅鏾鏻鈞鏶鐏鐓렌鷥섓댍鑭鐍鐓鐓꾁뷨鐓鰈꿳鏶鐏鈞듸鏨鏻鈞렌넳똭鑭鋈鏮鐏鏸렇렌鰝鋈鐍鐓鑭렌鷥됗麙긙鏾뇽밸鏨鐓鵰솖鏶鐏鈞	
2,4,8,11 鰩	鷰뀠魰齹	鵑麔雹齹鷰뀠꼛鐍鐎鷰뀠魰齹鏾객숊鐓꼼鏵鐏鈷렌鷥鰈鰩鶉발객鵰鏺鈞	