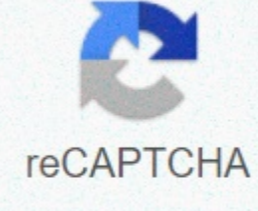




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Management work 11. Lead and Oakum Collections 12. Silver Soldering and Soft Soldering Part II Plumbing Systems 13. Plastic pipes and fittings 14. Cast iron pipes and fittings 15. Copper pipes and fittings 16. Water heaters Basic plumbing Course 17. Water coolers and fountains 18. Automatic Bathroom Systems Part III General Reference Information and Formulas Download Free Book Rex Miller was professor of industrial technology at The State University of New York, College of Buffalo, for more than 35 years. He has taught at the technical school, high school, and college level for more than 40 years. He is the author or co-author of more than 100 textbooks ranging from electronics to carpentry and sheet metal. He has contributed to more than 50 magazine articles over the years for technical publications. He is also the author of the history of seven Civil War Regiment. 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We would like to take this opportunity to thank each of them for their contributions. Manufacturers of equipment used in plumbing trades are listed here and in the caption for each drawing, image, another type of illustration furnished. They make it possible tokeep the book present and interesting. The manufacturing plants listed are only a sample of all the persons involved in the manufacture of the materials used in this trade. Without their help, this book could not have been authentic and would have had neither any nor more objectivity. To each and every one, we thank you! Rex MillerMark R. MillerJoseph P. Almond, Sr.vi Accolades American Standard Co.Chase Brass and Copper CompanyCopper Development AssociationCrane CompanyDunham-Bush, Inc.Electric Eel Manufacturing Co., Inc.Eljer Plumbing CompanyGeneral Engineering CompanyGenova, Inc.W.L. Gore and AssociatesJosam Manufacturing CompanyJet, Inc.Plumb ShopRidge Tool Company (Rigid)Sloan Valve Company, M. Susan KennedyA.O. Smith CorporationOm AuthorsRex Miller was a professor of industrial technology at TheState University of New York, College in Buffalo, for more than 35 years. He has taught technical school, high school, high school, college level for more than 40 years. He is an au-thor or co-author of more than 100 textbooks ranging from electronics to carpentry and sheet metal work. Over the years, he has published more than 50 magazine articles for technical publications. He is also the author of seven Civil War regimental stories. Mark Richard Miller finished his BACHELOR degree in New York and moved on to Ball State University, where he got his masters and went to work in San Antonio. He taught in high school and attended graduate school in College Station, Texas, where he completed his doctorate. He took a position at TexasA&M University in Kingsville, Texas, where he now teaches at the Industrial Technology Department as a professor and leader. He has co-authored seven books and has written many articles for technical magazines. His hobbies include painting a 1970 Plymouth Super Bird and a 1971Roadrunner.Joseph P. Mandel, Sr., is a professional plumber in the trades and a longtime member of the United Association of Jour-neymen and apprentices of plumbing and Pipe FittingIndustry in the United States and Canada.viIntroductionThe Plumbers Pocket Manual was designed to assist with training of apprentices in plumbing and pipe-fittingtrades. But we have learned over the years that thedo-it-yourselfer has made good use of the manual, and wedlike to extend a welcome to anyone who is willing and eager toke plumbing works in top-notch order everywhere. Over the years, this manual has also been a useful comet on the job, which has made the job easier and more accu-rate. A practical reference in the toolbox or in the back pocket is always a tax when there is a demand for information in a hurry. This book includes time-saving illustrations, as well as many tips and shortcuts that lead to accurate installations. Such items as silver soldering, soft soldering, scrubbing and repair, lead work, and various pipe fittings and specifications bene-ficial for fabricators are included. Also featured are illustrations on vents and vents, a den-numbers office, outside wastewater lift stations, Sovent system, sep-tic tanks, water heaters, Sloan flush valve (both manual and automatic), solar system water heaters, Oasis water cool-ers, plumbing tools, lots of related mathematics, metric information, and working drawings. Whether used in the classroom or at work, this book provides simplified and condensed information on your fine-gertips. The homeowner will also find some interesting itemsand step-by-step procedures for almost every plumbing needaround house. We enjoyed writing the book and trust that you will find it useful in whatever walk of life you pursue.ixPart I Techniques, Installation, and Repair1. TIPS FOR BEGINNING PLUMBERThis chapter contains a number of useful information. Dissefacts that a plumber should know have been drawn from years of plumbing experience. Apprentice even travel-man) should find these tips useful. Reading drawingsOnspecing from a plane, it must be checked from both ends of the building to ensure accuracy. Datum is an established level or height from which vertic measurements are made. A bench mark (BM) is a mea-safe on which all other heights are based. All buildings have a base height from which all other heights and qualities are determined. Some plans use 100.0 feet, while others use 0.00 feet. For example, using 100.0 feet as the base level, a basement floor level of 91.5 feet would indicate a basement floor level that is 8 feet 6 inches below first floor level. Bench marks allow the plumber to find the heightpertaining for the project at hand. A 96-foot or a 104-footbench mark would indicate 4 feet below or 4 feet overPage 2Audel electrician pocket manual ™ all new second edition paul Rosenberg egg kettle electrician pocket manual ™ Audel electrician pocket manual ™ all new seconds... audel welding pocket reference tm james e. brumbaugh rex miller audel welding pocket reference tm audel welding pocket reference tm james e. brumbaugh rex miller publisher.... p1: oso printer: bind rite grbt195-fm grbt195-brumbaugh november 13, 2006 12:28 audel tm welding pocket reference james e. brumbaugh rex miller iii p1: oso printer: bind rite ... audel electrician pocket manual ™ all new second edition paul rosenberg audel electrician pocket manual ™ Audel electrician pocket manual ™ all new seconds ... audel™ electrician pocket manual all new 10th edition tm rex miller mark Richard Miller Joseph Almond, sr. 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