

VOLUME **28** *Advances in*
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R. P. REED AND A. F. CLARK, Editors

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Advances In Cryogenic Engineering Advances In Cryogenic Engineering

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Advances In Cryogenic Engineering Advances In Cryogenic Engineering:

Advances in Cryogenic Engineering K. D. Timmerhaus, 2013-11-27 The Cryogenic Engineering Conference celebrated its Silver Anniversary at the 1979 Conference held at Madison Wisconsin For many it provided an opportunity to reminisce about the first Cryogenic Engineering Conference convened at the National Bureau of Standards in Boulder Colorado and also about the many following conferences and advances that had been reported at these conferences It is difficult to realize that the first Cryogenic Engineering Conference was held before the advent of multilayer insulation the space age large scale LNG Operations and superconductivity applications The evolution of these activities has been carefully recorded in past volumes of the *Advances in Cryogenic Engineering* Once again the Cryogenic Engineering Conference is happy to have had the International Cryogenic Materials Conference cohost this meeting at the University of Wisconsin Collaboration between these two conferences has proven to be mutually beneficial by providing the cryogenic engineer with an in depth exposure to materials properties selection and utilization to complement the exposure to new applications and design concepts The papers presented at this joint conference as part of the International Cryogenic Materials Conference will be published as Volume 26 of the *Advances in Cryogenic Engineering* **ADVANCES IN CRYOGENIC ENGINEERING**, 1968 *Advances in Cryogenic Engineering* K. D. Timmerhaus, 2013-11-11 The 1965 Cryogenic Engineering Conference in presenting the papers of its eleventh annual meeting takes this opportunity to gratefully acknowledge the assistance of Rice University and in particular R Kobayashi and his staff for serving as hosts for this conference This meeting because of its proximity to the NASA Manned Spacecraft Center has recognized the impact of the space age on the cryogenic field and has there fore attempted to emphasize this aspect of cryogenics to a greater degree than in past conferences The highlight of this conference has been the presentation of the highest Cryogenic Engineering Conference award The Samuel C Collins Award to its first recipient Dr Samuel C Collins This award set up in his name has recognized the outstanding contributions that Dr S C Collins retired Professor of Mechanical Engineering at the Massachusetts Institute of Technology has made in the field of helium liquefaction His significant advances in various phases of cryogenics have been recognized inter nationally by numerous organizations High on this list has been the tribute which was bestowed on him by the Kamerlingh Onnes Laboratory in Leiden in awarding him the first Kamerlingh Onnes gold medal to an American in 1958 The Cryogenic Engineering Conference in addition to recognizing his pioneering work in helium liquefaction by the presentation of the Samuel C Collins Award also dedicates this volume of the *Advances in Cryogenic Engineering* to him *Advances in Cryogenic Engineering* K. D. Timmerhaus, 2013-03-08 Support from the National Science Foundation has made it possible for the tenth annual Cryogenic Engineering Conference hosted by the University of Pennsylvania and capably directed by K R Atkins and his staff to emphasize the major international advances in cryogenic engineering This specific emphasis resulted in a final program of over one hundred papers and has made it necessary to publish the proceedings of the conference in two

volumes The first volume will be similar in nature to previous volumes in this series while the second volume will feature the international aspect of the conference program The latter volume because of this distinction will be entitled International Advances in Cryogenic Engineering As in the past the Cryogenic Engineering Conference Committee gratefully acknowledges the assistance of all the dedicated workers in the cryogenic field who have contributed their time in reviewing the preliminary papers for the program and the final manuscripts for this volume Since the list of participants in this thankless task numbers well over one hundred any attempt to acknowledge their individual contributions in the limited space available would be practically impossible

Advances in Cryogenic Engineering K. D. Timmerhaus, 2013-11-09 The University of Colorado and the National Bureau of Standards have once again served as hosts for the Cryogenic Engineering Conference in Boulder Colorado In presenting the papers of this twelfth annual meeting the 1966 Cryogenic Engineering Conference Committee has again recognized the excellent cooperation which has existed between these two organizations over the past decade with regard to both cryogenic research and conference activity This cooperation was demonstrated not only at the 1966 Cryogenic Engineering Conference but also at the International Institute of Refrigeration Commission I Meeting which was also hosted by these two organizations immediately following the Cryogenic Engineering Conference These two meetings have provided attendees with one of the most comprehensive coverages of cryogenic topics that has ever been presented at one location Emphasis on major international advances in helium technology at the International Institute of Refrigeration Commission I Meeting has been possible largely through the National Science Foundation Grant GK 1116 to the University of Colorado The Cryogenic Engineering Conference Committee gratefully acknowledges this support because of its valuable international contribution to the Cryogenic Engineering Conference As in the past the Cryogenic Engineering Conference Committee is grateful for the continued assistance of all the dedicated workers in the cryogenic field who have contributed their time reviewing the preliminary papers for the program and the final manuscripts for this volume

Advances in Cryogenic Engineering K. D. Timmerhaus, 2013-11-11 **Advances in Cryogenic Engineering** K. D. Timmerhaus, 2013-11-11 The 1960 Cryogenic Engineering Conference Committee is pleased to present the papers of the 1960 Cryogenic Engineering Conference Discussion of the papers wherever available has also been included to make the papers more valuable and interesting to the reader This annual meeting once again has been held in Boulder Colorado Many delegates will recall that similar meetings were held in Boulder in 1954 1956 and 1957 However this year because of the continued growth of this conference the National Bureau of Standards Boulder Laboratories was joined by the College of Engineering of the University of Colorado in hosting this sixth national conference The Cryogenic Engineering Conference Committee is happy to acknowledge the help of an Editorial Committee which contributed valuable assistance in the difficult and thankless task of screening the preliminary papers and also reviewing the final drafts This committee headed by R B Jacobs who also served as chairman for the Conference Committee consisted of R W Arnett D B Chelton R J Corruccini T M

Flynn R H Kropschot R M McClintock A F Schmidt L E Scott and W A Wilson *Advances in Cryogenic Engineering* K.D. Timmerhaus,2013-12-18 **Advances in Cryogenic Engineering** K. D. Timmerhaus,2013-11-11 The 1959 Cryogenic Engineering Conference Committee is pleased to present the papers of the 1959 Cryogenic Engineering Conference We are fortunate to have had the University of California at Berkeley Ca as our host for the fifth national meeting of this kind The move to the West Coast for this past Cryogenic Engineering Conference was prompted in part by the large concentration of missile activities which are to be found there Recognition of cryogenic operations and techniques in the missile field is given in many of the included papers The University of California was certainly well suited for such a meeting as this because it was here that much early work was done in cryogenics This pioneering in cryogenics is still evident today in the operation of the 72 inch bubble chamber at the Lawrence Radiation Laboratory The Cryogenic Engineering Conference salutes the missile industry and the cryogenic pioneers of yesterday and today at the University of California Special thanks must go to Dr D N Lyon from the Low Temperature Laboratory of the University of California who as chairman of the 1959 Cryogenic Engineering Conference Committee has worked tirelessly to increase the stature of this conference vii ACKNOWLEDGMENT The Cryogenic Engineering Conference Committee is deeply grateful for the continued support and interest of the following organizations who made the 1959 Cryogenic Engineering Conference possible Aerojet General Corporation A D Little Inc

Advances in Cryogenic Engineering K. D. Timmerhaus,2013-11-11 1969 marked the return of the Cryogenic Engineering Conference now affiliated with the National Academy of Sciences through the Division of Engineering National Research Council to the University of California at Los Angeles As in 1962 the Cryogenic Engineering Conference gratefully acknowledges the assistance of UCLA its Engineering and Physical Sciences Extension Division and in particular J Dillon S Houston H L Tallman and their staff for serving as hosts to the 1969 Cryogenic Engineering Conference The National Academy of Sciences is a private honorary organization of more than 700 scientists and engineers elected on the basis of outstanding contributions to knowledge Established by a Congressional Act of Incorporation the Academy works to further science and its use for the general welfare by bringing together the most qualified individuals to deal with scientific and technological problems of broad significance The National Research Council was organized as an agency of the National Academy of Sciences in 1916 to enable the broad community of U S scientists and engineers to associate their efforts with the limited membership of the Academy in service to science and the nation The Division of Engineering is one of the eight major Divisions into which the National Research Council is organized for the conduct of its work Its membership includes representatives of the nation's leading technical societies as well as a number of members at large The Cryogenic Engineering Conference is an organization of the Division of Engineering *Advances in Cryogenic Engineering* K.D. Timmerhaus,2013-12-14 The 1961 Cryogenic Engineering Conference Committee is pleased to present the papers of the 1961 Cryogenic Engineering Conference We are grateful to have had the University of Michigan at Ann Arbor Michigan as

our host for the seventh annual meeting of this group The Conference Committee in presenting the papers of this Conference takes this opportunity to acknowledge the assistance of an Editorial Committee in the selection of papers for the program Since over one hundred and twenty papers were submitted their task of screening and evaluating the papers was a difficult one The Committee guided by G j V an Wylen who also served as chair man of the Conference Committee included R W Arnett B W Birmingham D B Chelton R j Corruccini C j Guntner M j Hiza R B Jacobs A J Kidnay R H Kropschot j Macinko D B Mann R P Mikesell R L Powell J R Purcell R P Reed R j Richards A F Schmidt R B Stewart and K A Warren *Advances in Cryogenic Engineering Materials* U. Balu Balachandran, Donald G. Gubser, K. Ted Hartwig, Richard P. Reed, William H. Warnes, Victoria A. Bardos, 2013-11-21 Since 1954 *Advances in Cryogenic Engineering* has been the archival publication of papers presented at the biennial CEC ICMC conferences *Advances in Cryogenic Engineering* resides throughout the world in the libraries of most institutions that conduct research and development in cryogenic engineering and applied superconductivity The publication includes invited unsolicited and government sponsored research papers in the research areas of superconductors and structural materials for cryogenic applications All of the papers published must 1 be presented at the conference 2 pass the review process and 3 report previously unpublished theoretical studies reviews or measurements of material properties at low temperatures Victoria A Bardos Managing Editor **Advances in Cryogenic Engineering** K. D. Timmerhaus, 1973-07-01 The National Bureau of Standards Boulder Laboratories at Boulder Colorado once again served as the host for the 1972 Cryogenic Engineering Conference For the Cryogenic Engineering Conference it was like coming home for it was at the NBS Boulder Laboratories that the Cryogenic Engineering Conference was first conceived and held in 1954 in connection with the dedication of the NBS Boulder Laboratories by President Dwight D Eisenhower The Cryogenic Engineering Conference is grateful for the continuing support that the National Bureau of Standards has given over the years and which was expanded on July 1 1971 when the NBS Boulder Laboratories assumed the secretariat function of the Conference from the National Academy of Sciences Because of common interests in heat transfer the 1972 Cryogenic Engineering Conference worked with the 13th National Heat Transfer Conference to develop a joint program in heat transfer A majority of the papers presented in this cooperative effort are included in Volume 18 of the *Advances in Cryogenic Engineering* through the kind permission of the 13th National Heat Transfer Conference and are acknowledged accordingly *Advances in Cryogenic Engineering* K. D. Timmerhaus, 2013-11-11 **Advances in Cryogenic Engineering** K. D. Timmerhaus, 2013-03-09 1970 marked the seventh return of the Cryogenic Engineering Conference now affiliated with the National Academy of Sciences through the Division of Engineering National Research Council to Boulder Colorado Local arrangements for this year's meeting have again been capably handled by the University of Colorado and the Cryogenics Division NBS Institute for Basic Standards The Cryogenic Engineering Conference Committee gratefully acknowledges the assistance of these two organizations and particularly the Bureau of Continuation

Education of the University of Colorado for serving as hosts to the 1970 Cryogenic Engineering Conference The National Academy of Sciences is a private honorary organization of more than 700 scientists and engineers elected on the basis of outstanding contributions to knowledge Established by a Congressional Act of Incorporation signed by Abraham Lincoln on March 3 1863 and supported by private and public funds the Academy works to further science and its use for the general welfare by bringing together the most qualified individuals to deal with scientific and technological problems of broad significance Under the terms of its Congressional charter the Academy is also called upon to act as an official yet independent adviser to the Federal Government in any matter of science and technology This provision accounts for the close ties that have always existed between the Academy and the Government although the Academy is not a governmental agency and its activities are not limited to those on behalf of the Government

Advances in Cryogenic Engineering R.W. Fast,2012-12-06 The 1989 Cryogenic Engineering Conference meeting jointly with the International Cryogenic Materials Conference was held on the campus of the University of California Los Angeles from July 24 to 28 Professor T H K Frederking was the conference chairman The Conference had previously met at U C L A in 1962 and 1969 A special symposium A Half Century of Superfluid Helium was a significant part of the program of CEC 89 We were especially fortunate to have Professor Jack Allen of the University of St Andrews Scotland present at the Conference his paper Early Superfluidity in Cambridge 1936 to 1939 was a delightful often humorous account of the early experimental work with superfluid helium Professors V L Ginzburg and J L Olesen could not be present for the Symposium but provided papers which are published in these proceedings The late Bill Fairbank responding graciously to a last minute invitation from Professor Frederking presented a wonderful account of superfluid research in the United States in the post war years

Advances in Cryogenic Engineering K. D. Timmerhaus,2013-03-08 More than sixty years have elapsed since Linde first liquefied air on a commercial scale and prepared the way for separating of other gaseous mixtures His work however was not of an isolated nature It was conceived eighteen years after air had for the first time been liquefied in the laboratory by Pictet in Geneva and Caillete in Paris Linde's liquefaction of air was followed by Dewar's work on hydrogen liquefaction in London and by the setting up at Leiden of Kamerlingh Onnes's famous low temperature laboratory These advances in low temperature or cryogenic technology have resulted in the establishment of a completely new and thriving industry Cryogenic engineering is concerned with developing and improving low temperature processes techniques and equipment determining the physical properties of structural and related materials used in producing maintaining and using low temperatures and the practical application of low temperature techniques and processes These low temperatures are below those usually encountered in refrigerating engineering It is rather difficult to assign a definite temperature which serves to divide refrigerating engineering from cryogenic engineering A temperature below -150°C however is generally associated with cryogenic engineering

Advances in Cryogenic Engineering K. D. Timmerhaus,1980-11-01 The Cryogenic Engineering Conference

celebrated its Silver Anniversary at the 1979 Conference held at Madison Wisconsin For many it provided an opportunity to reminisce about the first Cryogenic Engineering Conference convened at the National Bureau of Standards in Boulder Colorado and also about the many following conferences and advances that had been reported at these conferences It is difficult to realize that the first Cryogenic Engineering Conference was held before the advent of multilayer insulation the space age large scale LNG Operations and superconductivity applications The evolution of these activities has been carefully recorded in past volumes of the Advances in Cryogenic Engineering Once again the Cryogenic Engineering Conference is happy to have had the International Cryogenic Materials Conference cohost this meeting at the University of Wisconsin Collaboration between these two conferences has proven to be mutually beneficial by providing the cryogenic engineer with an in depth exposure to materials properties selection and utilization to complement the exposure to new applications and design concepts The papers presented at this joint conference as part of the International Cryogenic Materials Conference will be published as Volume 26 of the Advances in Cryogenic Engineering **Advances in Cryogenic Engineering** R W Fast,1992-02-29 **Advances in Cryogenic Engineering** K. Timmerhaus,2012-12-06 The First International Cryogenic Materials Conference ICMC provided a new forum for the presentation of low temperature materials research The conference held in conjunction with the 1975 Cryogenic Engineering Conference provided materials research personnel with excellent exposure to current developments in the cryogenics field and beneficial interactions with designers of cryogenic systems Because of the large response to a late call for papers the enthusiasm and encouragement at the meeting and the wide spectrum and high quality of papers the Second International Cryogenic Materials Conference is being planned along with the 1977 Cryogenic Engineering Conference for Boulder Colorado in the summer of 1977 The success of the First International Cryogenic Materials Conference was certainly in large measure due to the excellent hospitality of our Canadian hosts the Royal Military College of Canada and Queen s University in Kingston Ontario In particular the efforts of A C Leonard and his staff ensured an excellent conference and a pleasant and memorable visit to Canada The Cryogenic Engineering Conference Board was both generous and skillful in helping to initiate this new conference and their guidance and acceptance is gratefully acknowledged The Cryogenic Engineering Conference program chairman M J Hiza greatly facilitated the interaction for the two conferences and provided valuable assistance in generating a workable program The proceedings of the 1975 Cryogenic Engineering Conference are published as Volume 21 of the Advances in Cryogenic Engineering and include many papers indicating innovative use of new cryogenic materials properties data

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